THE CHEMIST AND DRUGGIST

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THE CHEMIST & DRUGGIST SUPPLEMENT.

LONDON: 42 CANNON STREET, E.C.
SATURDAY, MARCH 11, 1899.

Businesses for Disposal
Businesses Wanted
Premises to Let
Auction Sales

ALSO EXCHANGE COLUMN.
For Bargains see last page of this Supplement.

Partnerships
Situations Vacant
Situations Wanted
Miscellaneous

A Copy of this Supplement is inserted in every number issued of "The Chemist and Druggist."

CHEMISTS' TRANSFERS.

MESSRS. ORRIDGE & CO., 32 LUDGATE HILL, E.C.

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1.—**£1,300.—SURREY (Good-class Residential Locality)**—Dispensing and Retail Business; returns last year £1,300, *net profit exceeds* £400; handsome shop and good stock; comfortable residence; lease will be granted; price £1,200.

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5.—**£500.—LONDON (Good-class Suburb).**—Light Retail and Dispensing; established many years: returns increase yearly, last year over £500, *profits half*; shop is well fitted and stocked; commodious residence, with garden attached; moderate rental; price £350.

6.—**£600.—LONDON, N.**—Old-established Business: Dispensing and Retail; returns about £600 per annum; the shop is handsomely fitted and well stocked; good residence; price £475.

7.—**£700.—EASTERN SUBURB.**—Modern pharmacy; well situate in good business thoroughfare; returns £700; *net profit about* £250; handsome shop and good stock; price £550.

8.—**£2,000.—NORTHERN SUBURB.**—First-class residential locality; old-established Business, well situate in busy main thoroughfare; returns average about £1,800 yearly; handsomely fitted shop and good stock; capital residence, held on lease: particulars on application.

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12.—**£400.—SOUTH ENGLAND.**—Old-established Business, Retail, Dispensing, and Prescribing; returns about £400; nicely-fitted shop and good working stock; house contains 7 rooms, private entrance; price to be arranged.

13.—**£400.—LIVERPOOL (Near).**—Death vacancy; old-established Business; has returned about £1 000 yearly, present returns £8 per week, easily increased; capital position in busy locality; must be sold; no reasonable offer refused.

14.—**£500. WALES.**—Capital opportunity for a Welsh chemist; vendor retiring from business; returns over £500; very good house, very low rental; price £300, or valuation if wished.

Particulars of any of the above will be furnished on application.

N.B.—NO CHARGE TO PURCHASERS.

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ADVERTISER desires Partnership in good-class Retail and Dispensing business in a growing suburb where there is scope for increase and to open new shops when opportunity offers. Reply, in confidence to "Energetic" (50/8), Office of this Paper.

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BUSINESSES WANTED.

ADVERTISER is desirous of purchasing at once a good-class Dispensing and Retail Business returning £700 to £900 with scope for increase, and which will bear strict investigation. Apply, in confidence, stating full particulars, to "Mixture" (52,40), Office of this Paper.

WANTED, to Purchase, for cash, a good-class Retail and Dispensing Business, in good locality, returning £1,000 or thereabouts; an Assistantship or Partnership, with view to succession, would be entertained; only those who can offer a genuine concern need apply. J. S. B. (49,20), Office of this Paper.

WANTED, to Purchase, for cash, a genuine Chemist's Business; Coast (any part) or health-resort preferred; Branch or neglected business not objected to, if capable of being improved: Partnership, or as Assistant, with view to succession, entertained; replies received in confidence. "Ferrum" (50/39), Office of this Paper.

WANTED, for cash, a sound good-class Light Retail and Dispensing Business, yielding net profit of £300 to £400; South preferred; moderate rent; principal only dealt with, and only those who can offer a genuine concern need apply. Full particulars, in confidence, to "Sanitas" (49/24), Office of this Paper.

F. J. BRETT

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3.—**LINCOLNSHIRE.**—Good-class Retail and Dispensing Business; returns £760; shop handsomely fitted and well stocked; electric light, &c.; good house; price £700.

4.—**BRISTOL (near).**—Light Retail and Prescribing Business; returns nearly £650; good profits; low rent; good house; shop is well fitted and stocked; scope for much larger trade; price £500.

5.—**MANCHESTER (near).**—Light Retail and Prescribing Business; returns over £600; well-fitted shop, with good stock; old-established; price £450; investigation courted.

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9.—**LONDON, N.**—Branch Business under management. Retail and Prescribing Business; returns £400 under management; low rent; comfortable house; price £250 or offer.

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YORKSHIRE.—Middle-class Prescribing and Dispensing with Dentistry; double-fronted corner shop nicely fitted; returns £ profit £150; price £450; low rent; this business offers scope for ment.

MIDLANDS.—Good all-round Retail trade; double-frouted sh fitted; low rent; returns £850; net profit £260; price £700.

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FASHIONABLE SEASIDE TOWN.—Good-class Prescrib Dispensing Business; returns £540; net profit £200; price £4 business can be made to do more than double without much troubl

LONDON, W.—Retail, Dispensing, and a little Prescribi prices; well fitted and stocked; returns £10 weekly; price val stock and fixtures.

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£700 returns.—**NORTHERN CITY.**—High-class Pharmacy, able suburb; steadily increasing business, with Doctor's patr Dispensing; convenient dwelling-house; pleasant neighbourhood.

£800 returns.—**LANCASHIRE TOWN.**—Genuine old-e Retail Business; rent £30, with house; price, valuation; als Water Works at option of purchaser; part purchase-money mi on approved security, if desired.

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NO CHARGE TO PURCHASERS

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BIRMINGHAM (near).—Large busy country town; goo Cash Business (Branch), Light Retail, Prescribing, &c., situated; only wants personal attention to greatly increase th (always been under managers); net profits last year about £ accept valuation of stock and fixtures (about £300); nothing will. Apply, "Proprietor" (49/33), Office of this Paper.

BRIGHTON.—First-class Light Retail and Dispensing returns nearly £1,000; fair amount of Dispensing (about yearly); low rent, long valuable lease; elegant mahogany fittin and fittings worth about £650; price £750; strictest investigatio "Camphora" (52/32), Office of this Paper.

DEVONSHIRE.—Old-established Business in large mark returns £500, increasing rapidly; low rent; very large gar stocked with fruit trees; opposition recently closed; stock alon the fixtures worth £300; price £250; a bargain. 50,15, Offic Paper.

EAST COAST.—Improving neighbourhood of flourishing town; genuine old-established Light Retail; well fitted; street; near favourite resorts; fine sea view; rent £35; profits could be added; price £270. "Ipecac." (53/1), Office of this Pap

EAST COAST (Fashionable Watering-place.)—Rail small local Wholesale; returns £1,644, steadily increas established Business, and in same hands 7 years, owner now givi trade; a thoroughly good and sound investment and a most e chance; everything fully open to investigation and can be thou proved bond-fide; rent £25 on lease; price £1 400, cash only; re first place. "Genuine" (49/11), Office of this Paper.

ESSEX.—For immediate Disposal, a Retail, Prescribing, and Agricultural Business, coupled with Gilbey's Agency, situate in a country town, within 1¼ hour from London; established 50 years; returns about £800; stock and fixtures at a valuation; rent moderate; a lease will be granted. Address, "Alpha" (51/32). Office of this Paper.

GLAMORGANSHIRE.—Branch Shop for Sale, for value of stock and fixtures, about £150; part of purchase-money can remain at interest; returning £6 weekly under improver, could be trebled by a good man; rent £24, part sublet for £13, or can be had on lease; will bear strictest investigation; no opposition for miles. "Genuine" (51/25), Office of this Paper.

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LONDON, N.—Death vacancy: immediate sale required; valuation of stock and fixtures only, say £200. Apply to Messrs. Orridge & Co., 32 Ludgate Hill.

LONDON, W.—In busy neighbourhood; no opposition; returns nearly £500, increasing; net profit nearly £200; price £250; genuine opportunity for pushing man. Full particulars from T. Phillips, 24 St. Mark's Crescent, Regent's Park Road, N.W.

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SOUTH COAST.—Small genuine Business; low rent; good profits; populous neighbourhood; excellent chance for Prescriber; good reasons for disposal. Apply, T. E. V. Kirtlan, Solicitor, Terminns Road, Eastbourne.

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A CHEMIST'S middle-class Retail and Prescribing, with Dentistry; no heavy trade and no booking; 1898 returns, £500, including £70 from dentistry; good house, private and back entrances; large shop, well fitted and stocked, corner position, plate-glass; main thoroughfare populous neighbourhood; cause, ill-health; at valuation. 52/25, Office of this Paper.

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LONDON Wholesale Drug House have Floor in Warehouse (E.C.) to Let, for storage of goods; good opportunity for Provincial or Foreign House to secure London address and assistance to distribute their goods. W., 23 Harringay Park, Crouch End.

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RETAIL.

ALDERSHOT.—Juuior Assistant; indoors; knowledge of Photography aud Teeth-extractiug preferred. Send full particulars and photo to Alleu & Lloyd, High Street, Aldershot.

ALDERSHOT.—Juuior Assistant; iudoors; must be active aud obliging. State full particulars, iucluding salary required, to J. Williams, Pharmaceutical Chemist, Aldershot.

BARNSLEY (Near).—Wanted, an Assistant for a Mixed Country busiuess, April 3rd. Apply, with particulars, J. T. Lambert, Chemist, &c, High Street, Wombwell, near Barnsley.

BOUGHTON, CHESTER.—Wanted, qualificd Assistant for Branch; good Dispenser and Counterman. State age, experience, and salary required (indoors), and euclose photo (to be returned), to Thos. Carter, Pharmaceutical Chemist, Boughton, Chester.

BOURNEMOUTH.—Smart gentlemanly Assistant wanted; indoors; leading Dispensing busiuess; half-day off weekly. Apply, with full particulars, to Hirst, Chemist, Boscombe, Bournemouth.

BURSLEM.—Juuior required for good-class Retail and Dispensing business; indoors; time and assistance for study, including use of Chemical Laboratory; half day off each week from 2 P.M.; no Sunday duty. Apply, stating age and salary required, and enclose photo, to A. P. Tiley (late Blackshaw) Chemist, Burslem.

CARDIFF.—Wanted, a Junior Assistant, with experience, in a Dispensing business; indoors. Apply, with full particulars, to D. Harries, 102 Queen Street, Cardiff.

CHELMSFORD.—Active Junior wanted, outdoors; hours 8.30 to 9, no Sunday duty; one evening out each week. State age, height, previous experience, salary required, &c., enclosing photo, to J. Ord Smith, 18 Duke Street, Chelmsford.

CHELTENHAM.—Improver or Junior Assistant wanted for Light Retail, Dispeusing, and Photographic business. State age, height, experience, and salary required, with photo, to Arthur Hill, Chemist aud Dentist, 98 High Street, Cheltenham.

CROYDON.—Wanted, smart Junior Assistant, indoors, at once; must be well recommended, and accustomed to good-class business. Apply, giving full particulars, including salary, photo, and reference, to Henry's Drug Stores, North End, Croydon.

DARLINGTON.—Wanted, qualified Assistant, chiefly for Hospital and Doctor's Dispeusing; indoors. Particulars, salary required, and photo to R. Nicholson, Bondgate, Darlington.

DERBY.—An energetic Assistant, about 23; qualified; indoors; Junior and Apprentice kept. Please enclose photo and state salary, height, reference, and usual particulars, to Thos. Hodgkinson, Chemist, Osmaston Road, Derby.

EASTBOURNE.—Improver or Junior; indoors; would suit one just out of apprenticeship. Apply, with full particulars of experience, salary expected, &c., to J. Gibbs & Son, The Central Pharmacy, Eastbourne.

EAST YORKSHIRE.—Wanted, a qualified Locum, from March 29 to April 5, in an Agricultural and Family business. Apply by letter, stating age, references, and salary required, to "Radix," Post Office, Driffield.

FOR THE EAST.—Good opening for a thoroughly competent qualified Manager, with first-class City experience: about 25 to 30; must be energetic, active, and capable; liberal salary and terms. Apply, by letter, to Dakin Brothers, 87A Leadenhall Street, E.C.

GLOUCESTER PROVIDENT DISPENSARY.—Wanted, a resident Dispenser and Custodian, who must be married, aud be registered under the Pharmacy Acts, or hold one of the Certificates recognised by the Local Government Board as qualifying for the post of a Dispenser; salary £90, rising to £100, with gas and firing. Applications, with testimonials, to be sent before 31st March, to the Secretary, Barton Street, Gloucester, who will furnish any further information.

HANLEY.—Wanted, an energetic, trustworthy, qualified Assistant; about 24; one used to a good, quick country trade with Prescribing and Tooth Extracting preferred; must be competent to take charge; weekly half-holiday; must have reliable references; enolose photo; applications not answered within a week declined. Edmund Jones, Chemist, Hanley, Staffs.

HEREFORD.—Wanted, by 25th iust., a thoroughly good Junior (outdoors) in Dispensing and Light Retail business; one only kept. Apply, with full particulars aud photo (to be returued), to W. E. Haines, Chemist, Hereford.

KENSINGTON.—Wanted, Indoor Assistant, about end of March; time for study. State age, height, experieuce, reference, previous engagements, &c., and when disengaged, or call any day before 6 P.M., Davis, 4 Stratford Road, Marloes Road, Kensington, Loudon.

LANCASHIRE.—Wanted, at once, a steady Junior or Improver (outdoors) in a Light Retail aud Dispensing business in Lancashire Watering-place; time for study; no heavy trade. Address, "Statim," Messrs. Evans, Sons & Co., Liverpool.

LEOMINSTER.—Junior Assistant, at once; knowledge of Photography preferred, but not essential. Ellwood & Son, Leominster.

LIVERPOOL.—For March 27th, qualified Assistant, about 23 or 24 years of age, accustomed to first-class business. State age, height, experience, reference, aud salary (indoors), enclose photo if convenient, A. Sawden, 28 Lark Lane, Sefton Park, Liverpool.

LIVERPOOL DISTRICT.—Qualified Assistant, to hve on pr[illegible] with another and a honsekeeper; also a Junior or Improver w[illegible]ed. Address, with usual particulars and salary required, 49/6, Office o[illegible] Paper.

LLANDUDNO.—Wanted, qualified Assistant for Branch; goo[illegible]is. penser and Counterman. State references, experience, ag[illegible] and salary required (outdoors) to W. A. Roberts, Chemist, Llandudno.

LONDON (City).—Wanted, Assistant, qualified (speaking G[illegible]man preferred), for easy situation in the City; or German As[illegible]t with long experience in England. Apply, R. Howden, 28 Grace[illegible] Street, Londou, E.C.

LONDON, S.W.—Qualified Assistant wanted, aged about 24. [illegible] stating full particulars, H. Knight, 103 High Street, Wand[illegible] S.W.

LONDON, N.—Junior (smart), just from Apprenticeship; sal[illegible] (indoors). State age, height, when could come, had or n[illegible] Tooth-extraction experience, enclose photo, to Morris, Chemist, 33[illegible] Green Road, Tottenham, London, N.

LONDON, W.—Wanted, by April 6th, a Juuior Assistant, t[illegible] Dispensing and put up Stock; outdoors. Apply, with full p[illegible] lars, to J. F. Harriugton, 45 Kensington High Street.

LONDON, W.—Junior Assistant wanted; four employed. [illegible] betweeu 10.30 and 6.30, F. W. Warren & Co., 340 Harrov[illegible] Loudon, W.

LONDON, S.E.—Qualified Assistant, about 23, required; [illegible] Apply, stating age, height, salary required, and enclose p[illegible] Frost & Harrison, 3 Eltham Road, Blackheath, S.E

LONDON, S.W.—Junior or Improver desiring to improve h[illegible] ledge of Dispensing and Retail; small salary. Apply, with [illegible] lars, by letter, to "Chemist," 66 Chesilton Road, Fulham, S.W.

LONDON, W.—Wanted, at once, a Junior Assistant; indoors. [illegible] personally or by letter, stating all particnlars, to Reecc & C[illegible] maceutical Chemists, 53 Great Marylebone Street, Portland Place,

LONDON, N.E.—Wanted, at once, an experienced aud e[illegible] Assistant; indoors; comfortable home. Apply personally if [illegible] or send full particulars as to age, height, salary required, experic[illegible] Thomas, Chemists, 411 Mare Street, Hackney, N.E.

LONDON, S.E.—Qualified Assistant, to assist principal in g[illegible] Dispensing and Family business; good Dispenser aud ca[illegible] taking sole charge. Statc height, aud give full particulars, als[illegible] photo (to be returned), Phillipps & Co., 215 & 217 Lewisham Hig[illegible] S.E.

LONDON, W.—Wanted, Assistant with Minor qualification f[illegible] class Dispensing business in the West-end; salary £60 ([illegible] Apply to H. J. Bound (Lim.), 88 Westbourne Grove, W.

LONDON.—Wanted, for a first-class Dispensing business in L[illegible] qualified married Assistant, without family, to live at the [illegible] must have had good previous experience; salary £120. with all[illegible] for Assistants. Apply to T. R., Messrs. Warrick Brothers, 7 [illegible] Lane, E.C.

LONDON, S.E.—Immediately, Junior (indoors): must have g[illegible] ences. Apply, with full particulars as regards salary [illegible] references, &c. (personal application preferred), to C. Bunker, 1[illegible] Dover Street, S.E.

LONDON, W.—Junior Assistant, by April 5, where 5 others [illegible] State age, height, salary required (indoors), enclosing pho[illegible] venient, to "Pharmacist," 118 Holland Park Avenue, W.

LONDON, N.W.—Wanted, at once, qualified gentlemanly [illegible] (indoors), about 24, neat writer, for a first-class Dispensing [illegible] salary £60, rising to £80. Apply, with full particulars, to [illegible] (49/39), Office of this Paper.

LONDON, N.W.—Junior; abstainer; indoors; at once; [illegible] or 20 years of age; hours 8 till 10, and alternate Sunday e[illegible] at liberty Thursday afternoou and evening; salary £30. Ap[illegible] sonally, or euclosing carte, stating height, age, references, &c., to M[illegible] 91 Hampstead Road, N.W. One only kept.

LONDON, W.—Wauted, at ouce, smart Juuior; good St[illegible] and able to Dispense; aged about 21. Apply, with full pa[illegible] Jones & Bowles, 221 High Street, Kensiugton.

LONDON, N.E.—Messrs A. P. Barnard & Son, 309 Hackn[illegible] London, N.E., have a vacancy for a Junior; one accusto[illegible] London suburban or middle-class country trade, and about 21, j[illegible] his appreuticeship, preferred; 2 kept; good opportunity to gai[illegible] ence; state salary (indoors), when disengaged, refereuces, &c.

LONDON, S.E.—Wanted, smart Junior or Improver, for [illegible] retail and Dispensing business. Apply, Brindley Grice, Ph[illegible] Rosendale Road, West Dulwich.

LONDON, N.E.—Wanted, at once, Juuior or Improver; suit [illegible] for exam Usual particulars to Hodgson (late Garva[illegible], 2 L[illegible] Clapton Road, N.E.

LONDON, N.W.—Two Assistants wanted for high-class Ca[illegible] one as Dispenser, quick, neat, and accurate, good salary fo[illegible] man; the other a Counterman, with Photographic experience; s[illegible]ry and commission; indoors. Apply, "Manager," 265 Finchley Road, N[illegible]

LONDON, S.E.—Wanted, young qualified Assistant, also [illegible] Improver; 12 hours a day, except Saturday, and very litt[illegible] duty; weekly half-holiday; Cash trade. Full particulars to B., 4 [illegible] Row, Bermoudsey, S.E.

LONDON, S.W.—Wanted, at once, qualified Assistant; outdoors; hours 9 to 7. Apply, by letter only, stating full particulars and salary required, "Chemist," Haymarket Stores, 28 Haymarket, S.W.

MAIDENHEAD.—Wanted, an active Assistant; accurate Dispenser; good address; abstainer; letters not answered in 4 days declined. Apply, giving full particulars, A. Upson, Chemist and Optician, 35 High Street, Maidenhead.

NOTTINGHAM.—Smart Junior or Improver; outdoors; weekly half-holiday; no Sunday duty. State experience, and enclose photo, if possible, William Gill, Chemist, 207 Radford Road, Nottingham.

OAKENGATES.—Wanted, Juuior or Improver. Send particulars and salary required, with reference, to A. H. Ferriday, The Pharmacy, Oakengates

OLDHAM.—Wanted, smart, active Junior (outdoors), about 20, for pushing Retail busiuess: must be quick and reliable, and a good Counterman. Address, stating age, experience, references, and salary required, with photo, to J. & J. Thompson & Co (Limited), 192 Manchester Street, Oldham.

OXFORD. Wanted, a qualified Assistant (outdoors), accustomed to a good-class Retail and Dispensing business; commencing salary, £120. Apply, with full particulars of age, experience, height, and references, enolosing carte, to Cousins, Thomas & Co., Chemists, Oxford.

SEACOMBE.—Wanted, at once, a Junior Assistant or Turnover Apprentice, about 19, in a Light Retail and Dispeusing business; time allowed for recreation and attending School of Pharmacy. Apply, stating age, height, and salary expected, with reference, to Hinkley, Seacombe, Liverpool.

SEVENOAKS.—Wanted, a steady and trustworthy Assistant, aged about 23, accustomed to good-olass Retail and Dispensing; qualification not esseutial. Apply, with usual particulars, stating salary required and enclosing photo, to R. Barrat, Pharmaceutical Chemist, St. John's, Sevenoaks.

STAFFORD.—Wanted, a Junior Assistant for good-class General Retail and Dispensing; outdoors. State age, height, aud salary required, and enclose photo, J. Marson & Son, Stafford.

SWITZERLAND.—Wanted, an English qualified Assistant speaking French and, if possible, German; agreeable place; Alpine health-resort (Davos). Apply to Mr. C. Fr. Hausmann, Pharmacy, St. Gallen, Switzerlaod.

SLOUGH.—Assistant (22-25) wanted next week in good class Retail aod Dispensing busiuess; good salary to smart man. 50/17, Office of this Paper.

TORQUAY.—About the 22nd inst., an Assistant for good-class Light Retail and Dispensing business; knowledge of Photography preferred; must be well up in Dispensing. Full particulars, photo, and references, stating salary expeoted (indoors), Reid, Chemist, Torquay.

WALTHAMSTOW.—Mr. Rundle. 220 High Street, Walthamstow, will have a vacancy for an Improver or Part-time Assistant at the end of March; every home comfort and special facilities for study. Apply personally; trains from Liverpool Street to Hoe Street every half-hour.

WARRINGTON.—Wanted, for March 27, energetic qualified Minor Assistant; indoors; aged about 24; hours 8.30 to 8.30, Saturdays 10.30, alternate Sundays 6.30 to 8.30. Apply, with references, &c., to H. F. Greenough, Chemist, Warringtou.

WELLS, SOMERSET.—Wanted, Qualified Manager (indoors), Dispensing and Family business; knowledge of Photography. Apply, stating age, height, salary required, with references, and photo, to Manning, Chemist, Wells, Somerset.

WESTON-SUPER-MARE.—Qualified Assistant (indoors) for good-class Dispensing business. Send particulars of experience, &c., to John Cooper, Pharmaceutical Chemist, Weston-super-Mare.

WISBECH.—Assistant, indoors, about 25; qualified, or good unqualified man; must be good Dispenser, and capable of taking charge. State full particuiars to M. Herrod, Wisbech.

WORCESTER. — Outdoor Assistant, for the Dispensing-counter. Apply, with photo, stating age, height, and experience, to E. J. Kitson, The City Drug Stores, Worcester.

WOLVERHAMPTON. Wanted, an Assistant as Second for good-class Retail and Dispensing; if with knowledge of the Photographic business preferred, but not essential. Apply, with full particulars, to F. J. Gibson, Chemist, Wolverhamptou.

WORCESTER.—Qualified Assistant, about 25 years of age, chiefly for the Dispeusing counter. State height, salary required with references (photo if conveoient), Messrs. George & Welch, Worcester.

YORKSHIRE.—Wanted, Lady (qualified), to take charge of shop in Yorkshire. Apply, stating experience, salary required, &c., to "Manageress" (45/7), Office of this Paper.

AN Assistant, about 24 years of age, accustomed to good-class Retail and Dispensiug. State age, height, and salary, to Tenison Smith, Ryde, I.W.

A QUALIFIED Assistant (unmarried) to manage a Branch; a Junior kept; a commission allowed on the sale of Proprietaries, and a gentleman capable of pushing these, and making a profitable turnover, would have his salary increased in proportion to the profits; required to board and lodge on the premises. Full particulars to W. B., 2 Addington Road, Stroud Green, N.

JOHN BARKER & CO (LIMITED), Kensington, W., are in want of a qualified Dispeoser; close at 6.30 P.M., and 2 o'clock Saturdays; personal application uecessary.

JUNIOR (indoors), beginning of April; country business; postal and telegraph routine; whole day allowed weekly; hours 8 to 8, Fridays and Saturdays 10 P.M.; no Sunday duty; good salesman, and to push own specialties; Extractor; very little heavy trade. Apply, giving ago and references, Booth, Post Office, Somercotes, Derbyshire.

JUNIOR Retail Assistant; must have had first-class experience and be qualified. Apply, giving full particulars of age, experience, qualification, reference, and salary required (indoors), with photograph if convenient, to Brady & Martin, 29 Mosley Street, Newcastle-on-Tyne.

LEWIS & BURROWS (LIMITED), of 22 Great Portland Street, W., have immediate vacancies for smart Juniors. Apply personally or, if by lottor, enclose photo and state full particulars, including salary required (outdoors).

MANAGING Assistant; reliable knowledge of country trade and Dentistry; qualification preferred, but not necessary; lodge out, board in; good berth; short hours for steady man; must invest £100; salary and commission. H. (51/24), Office of this Paper.

OLD-ESTABLISHED firm, select business (own Specialities largely, and Dispensing), requires Assistant at Easter; outdoors; single; not under 24; not necessarily qualified; must be gentlomanly, punotual, and well able to push plausibly own specialities, or no good at all. Send particulars, height, age, salary required, and references, with portrait (returnable), to Box 142, Post Office, Bradford. (Hours 8.30 to 7.45.)

SMART, active, qualified men wanted as Managers for Branches; must be good business men and capable of working up a district. Apply, with photo, stating age, experience, and salary required, to George O. Dusart, 135 Queen's Road, Brighton.

WANTED, Qualified Assistant (indoors) capable of taking charge. Apply, with full particulars, to "Bromide," c/o Wharram, Wholesale Chemist, 49 St. Paul's Street, Leeds.

WANTED, Junior Assistant; one used to Mixed country business; one capable of going out soliciting orders, as advertiser does small Wholesale trade (South Staffordshire). Apply, "Styrax" (208/29), Office of this Paper.

WANTED immediately, a Locum-tenens, for about two weeks, as Assistant. Apply to the Dispenser, Hospital for Sick Children, Great Ormond Street, W.C.

THE ROYAL HOSPITAL FOR DISEASES OF THE CHEST, CITY ROAD, E.C.

DISPENSER required; must have the Major or the Minor Pharmaceutical qualification; commeucing salary £100 per annum, increasing £5 per annum to £120; similar experience a recommendation.

Applications and testimonials to be sent to the Secretary at the Hospital.

March 6th, 1899.

CITY OF LONDON UNION INFIRMARY.

DISPENSER.—The Guardians of the City of London Union invite Applications for the Post of Dispenser, at the Infirmary, Bow Road, E.; candidates must be between 25 and 40 years of age; the salary is £100 per annum, with dinuer and tea daily; application forms, and further particulars of the duties, &c., may be obtained at my office as below; the appointment will be made subject to the approval of the Local Government Board and the provisions of the Poor Law Officers' Superannuatiou Act, 1896.

Application for forms will not be entertained after March 18.

(By Order), F. W. CRANE, Clerk to the Guardians.

61 Bartholomew Close, E.C., Marcb 7, 1899.

CLAYTON HOSPITAL AND WAKEFIELD GENERAL DISPENSARY.

WANTED, a Dispeuser; candidates must have the Minor or Hall qualification; salary £90 per annum.

Applications, with not more than three recent testimonials, to be sent not later than Friday, March 17th, to the Hon. Sec., Clayton Hospital, Wakefield.

Wakefield, March 7th, 1899.

HOLLOWAY AND NORTH ISLINGTON DISPENSARY, PALMER PLACE, HOLLOWAY ROAD, N.

REQUIRED, part-time Dispenser, to reside at Branch Dispensary; hours of attendauce: Tuesday and Thursday, 9.30 A.M.; Monday and Friuay, 5 P.M.; Wednesday and Saturday, 2.30 P.M.; also each evening at 6 to 6.30; salary 10s. per week with unfurnished rooms (4), coal, and gas. Applications, stating age and qualificatious, with testimonials, to Honorary Secretary, not later than 25th March.

WOLVERHAMPTON AND STAFFORDSHIRE GENERAL HOSPITAL.

WANTED, an Assistant Dispenser; must be fully qualified; salary £75 per annum, with mlddy meal.

Applications, with testimonials, to be sent to the undersigned not later than Wednesday, the 15th inst.

By Order,

EDWIN A. WHITE, House Governor and Secretary.

Wolverhampton, 7th March, 1899.

WHOLESALE.

ASSISTANT (young) wanted for Laboratory work; must be experienced in the Manufacture of Pharmaceutical Preparations. Address, stating salary required and experieuce, to 208/72, Office of this Paper.

A CAPABLE Assistant required by a Manufacturing Chemist for Correspondence and other work calling for a sound business knowledge; must be energetic and painstaking; aged 21 to 25. Write fully to F. C., Box 3682, Sell's Advertising Offices, London.

A FIRM about to commence the manufacture of Essences for the Mineral Water trade require the services of a first-class man to manufacture and take charge of the department. Apply, 208/32, Office of this Paper.

SITUATIONS OPEN—*cont.*

WHOLESALE—continued.

ANY Chemists wishing to further the interests of a reliable and intelligent Light Porter may hear of a suitable opening in a Manufacturing business on applying, by letter, to F. O. S., c/o Messrs. Street & Co., 30 Cornhill, E.C.

EXCELLENT opportunity for Gentlemen working London and Suburbs, also the Provinces, to increase their income by introducing good saleable line; P.A.T.A.; good profit to Chemists; sells well; very liberal commission to able men. Write (in strict confidence) for further particulars, to 207/49, Office of this Paper.

FOREWOMAN, with Apothecaries' Hall or Minor qualifications, wanted, to superintend a number of girls putting up medicines. Apply, by letter, L. L., 75 Leadenhall Street, London, E.C.

IN the Research, Analytical, and Manufacturing Laboratories of a prominent firm of Manufacturing Chemists are vacancies for well qualified gentlemen; candidates must furnish full particulars as to age, qualifications, and experience, and state salary required. Address, "Chemist," c/o Messrs. Street & Co., 30 Cornhill, E.C.

JUNIOR Clerk, well educated, about 21, wanted in large Wholesale House; must have had good business training. State age, salary, and experience, to "Junior," c/o Dixon's Advertising Offices, 195 Oxford Street, W.

LADY PHARMACIST (qualified) to superintend in the Packing Department, handling of preparations containing poisons. Applicants will please state age, experience, and salary required, to "Poison," c/o Messrs. Street & Co., 30 Cornhill, E.C.

MESSRS. LORIMER & CO., Britannia Row, N., require a Representative for the country, with good connections among Chemists and Stores; salary and commission.

PORTER (Light), about 20; Clapham district; usual shop hours and alternate Sunday duty; one used to wrapping and bottling; good references required. Send full particulars to "Drug Stores" (52/28), Office of this Paper.

SURGICAL TOW.—Dundee house wants a Representative, with good connection among Hospitals and Wholesale and large Retail Chemists, to sell their preparations on commission in London and the provinces; state district covered. Apply, 47/9, Office of this Paper.

TRAVELLER wanted, principally for Eastern and South-Eastern Counties, for Druggists' Sundries, &c.; a man with some knowledge of the ground preferred. Apply, stating terms and experience, to "Sundries" (52/35), Office of this Paper.

WANTED, an Analytical Chemist, of exceptionally high and proved ability and accuracy, with good experience in testing Medicinal Chemicals, to take up the position of Chief Analyst at the works of a leading London firm of Manufacturing Chemists: a gentleman who has taken University degrees preferred. Address, stating age, qualifications, and experience, to "Analyst," c/o Messrs. Markby, Stewart & Co., Solicitors, 57 Coleman Street, London, E.C.

YOUNG Laboratory hand wanted, experienced in making Chemical or Pharmaceutical Preparations. Apply, with full particulars of experience, salary required, to Philip Harris & Co. (Limited), Edmund Street, Birmingham.

SITUATIONS WANTED

1s. for 12 words or less; 6d. for every 6 words beyond.

RETAIL.

EVENING employment; qualified; good references. 53/20, Office of this Paper.

LOCUM-TENENS.—M. Provost, Grantham, and 11 Tremadoc Road, Clapham, S.W.

EVENING work wanted by Major student. Turner, 5 Page Street, Westminster.

QUALIFIED; 24; disengaged; first-class experience. P., 33 High Street, Buxton.

ASSISTANT in good class business; view to succession. 48/38, Office of this Paper.

ISLE OF MAN.—Manager or Assistant; experienced. "Rhei" (47/28), Office of this Paper.

LOCUM or Traveller; qualified; tall; Photography. Apply, 47/33, Office of this Paper.

LOCUM; qualified; abstainer; disengaged. H. Boden, 102 Pilton Street, Barnstaple.

JUNIOR: 21; 5 years' experience (outdoors). Graig, Llanfyrnach, R.S.O., Pembrokeshire.

ASSISTANT, 23, qualified, in good-class business. Roberts, 19 Young Street, Kensington, W.

TEMPORARY; 2 or 3 days vacant weekly. J. S. Laing, 3 The Boulevard, Balham, S.W.

JUNIOR: 21; 5½ years' good experience; good references. Jan Tydvil House, Porthcawl.

AS Manager or Locum; qualified; 27; disengaged second week in A L 50/10, Office of this Paper.

LOCUM; qualified; 24; disengaged; highest references. Bate, Mr. Tiley, Chemist, Burslem.

QUALIFIED: West-end experience; London preferred. Ullet West Kensington Terrace, W.

PART-TIME; qualified; first-class experience. "Lini," 67 Lan Conduit Street, London, W.C.

LOCUM, Manager, or Senior; thoroughly experienced. "Chem 7 Cary Road, Leytonstone, E.

LONDON.—Part-time; qualified; good experience; disenga Cornick, 64 Doddington Grove, S.E.

MANAGER or Assistant; qualified; 4½ years last situat Weaving, Fyfield Wick, Abingdon.

ASSISTANT; 25; good references; tall; disengaged. "Bro 9 Odessa Road, Forest Gate, London, E.

JUNIOR (Loudon); 5 years' country and London experience; references. Keen, West Rock, Warwick.

ASSISTANT; experienced; 38; tall; permanency; outdo "Statim," 19 Tonis Road, Shepherd's Bush.

ISLE OF MAN.—Dispenser, Prescriber; references and particu sent. "Mooa" (46/35), Office of this Paper.

DISPENSER; qualified; 24; outdoors; Midlands prefer "Chemist," 11 Archery Road, Leamington.

JUNIOR; outdoors; Counter or Stock; unqualified; good referen "Radix," 22 St. John Street, Smithfield, E.C.

ASSISTANT: 24; good Store and Photographic experience; doors. "Rhei" (50/14), Office of this Paper.

MANAGER (qualified); 35; tall; extensive experience; disenga after Easter. Apply, 53/18, Office of this Paper.

MANAGER (Branch or Widow); qualified; steady; best experie in all branches. Apply, 50/4, Office of this Paper.

MANAGER; qualified; temporary or permanent; present re ence 3 years. M.P.S., 355 Wandsworth Road, S.W.

MANAGER or Assistant; qualified; married; 32; good experie James Nairn, Glebe Street, Bellshill, near Glasgow.

DISPENSER-ASSISTANT; 28; experienced Prescriber, Extrac "Medicus," Oxford House, Beaufort Street, Bristol

QUALIFIED Assistant; West-End experience; part-time prefer London. H., 2 Ascham Street, Kentish Town, N.W.

ASSISTANT: 23; 5 ft. 10 in.; 8 years' experience; 5 years' Sto outdoor. Hodgkiss, 7 Abbey Drive, East Grimsby.

DISPENSER or Assistant to Surgeon, Institution, or Surgeon's Reta Minor and Hall Exams. 52/29, Office of this Paper.

PART-TIME, with facilities for study; City or West; previ London experience. "Junior" (49/29), Office of this Paper.

PART-TIME: disengaged all day or part of day, or every eveni Chemist or Surgery. "Gentian," 113 Great College Street, N.W.

LADY-DISPENSER: Apothecaries' Hall Certificate; Doctor, Inst tion, Voyage. Moore, 50 Bullingham Mansions, Kensington, Lond

MANAGER, Assistant, or Locum; all-round experience; engaged; excellent references. D. 53 Halley Road, Forest Gate

LONDON.—Part-time engagement; accustomed to good class tra aged 25; disengaged. Lewis, Chemist, Ton Pentre, Glamorganshi

PHOTOGRAPHIC TRADE.—As Manager; 12 years' experie with Photographic Chemist; age 27. Heeley, 16 Whitefriargi Hull.

LOCUM or Manager to Chemists, Surgeons, or Institutions: first-cl references; qualified; disengaged. F. G. Shrimpton, Grove Str Oxford.

IMMEDIATE; Junior (21), in good-class Retail and Dispensing bu ness; Manchester district preferred. "Statim," c/o Rogers, Chem Altrincham.

QUALIFIED Junior, good-class Pharmacy, requires more exp ence; West-end preferred. Pilcher, 120 Kennington Park Ro London, S.E.

LOCUM or Manager, M.P.S.; disengaged; South Coast preferr good all-round long experience. "Chemist," c/o Mr. Valler, Ca Street, Brighton.

COMPETENT, industrious Assistant; outdoors; 36; unqualifi good references; mixed experience; abstainer. "Practical," 42 V Street, Uxbridge

QUALIFIED middle-aged trustworthy Assistant requires situation good all-round experience; no encumbrance. T., 77 Upper Arundel Street, Portsmouth.

JUNIOR; 20; good Dispenser; 5 ft. 10½ in.; Photography; good references; disengaged. Full particulars, "Salol," Royal Pier Hotel, Clevedon, Somerset.

RE-ENGAGEMENT, Branch or otherwise; unqualified; Extractor, Prescriber; well recommended; active; 45; married. "Drugs," 36 Whitechapel Road, E.

MANAGER, Branch or otherwise; married; qualified; good all-round experience; live on the premises preferred. Address, "Fides" (48/6), Office of this Paper.

MANAGER, Locum, or Assistant; outdoors; 30; West-end and Provincial experience; highest references. "Extractor," Tancastoll, Rhydyfelin, Aberystwith.

ASSISTANT, 21½, tall, 5 years' experience, including West-end, wishes Part-time re-engagement (London); excellent references. "Digitalis" (50/22), Office of this Paper.

EXPERIENCED Assistant; outdoors; well up in Dispensing, Extracting, and Prescribing; aged 40; tall; satisfactory references. Lloyd, Gwythor Street, Pembroke Dock.

EMERGENCY occurring for Manager, Assistant, or Locum, can be filled by competent man; splendid record; just sold own business. "Statim," 79 High Street, Plaistow, London.

ASSISTANT or Manager (unqualified); aged 29; 15 years' town and country experience; Extractor; knowledge of Photography; married. "Pyro" (51/18), Office of this Paper.

MANAGER or other responsible position in respectable business; qualified; married; high-class experience and reference; disengaged. Thos. Milton, 8 Portland Place, Clifton, Bristol.

ASSISTANT, aged 30, tall, requires situation; Wholesale or Retail; good references; some years with Evans, Sons & Co. Address, "Menthol," 93 Castleland Street, Barry Dock, South Wales.

MANAGER, Branch Manager, or Locum; Chemist and Dentist; 30 years' good experience; unexceptionable references; abstainer; disengaged 18th. Turner, 216 St. Paul's Road, Canonbury, N.

YOUNG German, speaking English and French, wants position as Assistant in a Chemist's shop; he has had six years' Berlin experience in the trade. "Eherius," 345 Hoe Street, Walthamstow.

BRANCH Manager or otherwise; married, no family; London and Provincial experience; qualified by examination; good references; permanency desired; disengaged. "Statim," 5 Lewes Road, Brighton.

TEMPORARY: 3 to 9 months' engagement or view to ultimate managership; 28; good-class experience and references; South; qualified; about April 4th. Address, "Reliable" (46/33), Office of this Paper.

WANTED, situation as Manager to Branch some time in May; good Prescriber, Extractor, and well up in Surgery; married; aged 30; good references; sea coast preferred. Apply, "Beta" (47/24), Office of this Paper.

UNQUALIFIED Medical Assistant, 20 years' practical experience, requires engagement with Medical man or Chemist; married and family; steady and reliable; good Dispenser, bookkeeper, Prescriber, and Extractor; excellent references; state salary. Wilson, Eccleshall, Staffs.

ASSISTANT (speaking French and German), age 21, native of Alsace, seeks English situation for the summer, commencing 15th April or 1st May; 6 years' experience, 3 years in the Pharmacie Centrale de Mulhouse. Apply "Alsace," c/o Davy, Hill & Son, Yates & Hicks, 64 Park Street, Southwark, S.E.

PERMANENCY.—Assistant, qualified (26), desires permanency as Senior or Manager; married; no family; has managed London business doing £1,000 (single-handed) satisfactorily; Photography, Dentistry, Sight-testing, Truss-fitting, &c.; country preferred, but not essential; state salary and hours in first letter. F. W., The Poplars, St. Peter's, Lynn.

WHOLESALE.

ADVERTISER, with 6 years' experience, seeks situation in Wholesale. D., 49 East Street Buildings, W.

CLERK, with knowledge Wholesale and Retail, requires responsible position. 53/24, Office of this Paper.

WHOLESALE situation desired; experience Retail, short Wholesale. Eggleton, 51 Sidmouth Street, W.C.

SITUATION required by young man as Clerk (20); experienced; moderate salary. 27 Dover Street, West Hartlepool.

PILL-COATING (transparent gelatine); a lady wants re-engagement as above; 15 years' experience. 47/19, Office of this Paper.

TRAVELLER seeks engagement with first-class house; Drugs or Flavouring and Soluble Essences. A. (51/37), Office of this Paper.

AMERICAN Drug Clerk, thoroughly experienced, enterprising, well recommended, wants situation good firm. 49/1, Office of this Paper.

MINOR qualification; Photographic experience; careful and accurate; disengaged; Wholesale or Manufacturing preferred. 52/36, Office of this Paper.

COMPETENT Chemist, thoroughly experienced in Analytical work, desires situation in Chemical or other works; excellent references. 48/39. Office of this Paper.

WHOLESALE: young man, energetic, requires situation as Wet Counterman; 3 years' experience; also 4 years' practical Retail. W., 7 Vesey Street, Poplar, E.

WHOLESALE: qualified Chemist (23) desires situation in Laboratory or as Representative; first-rate references and experience. "Chemist," Boronia, Stechford.

REPRESENTATIVE; liberty shortly; 13 years' varied Retail experience; aged 28; good knowledge Drugs, Perfumery, Sundries, &c. Particulars to 46/34, Office of this Paper.

YOUNG, active, qualified Chemist seeks position in country Wholesale and Retail; Midland counties preferred; part time travelling not objected to. Apply, 50/37, Office of this Paper.

GENTLEMAN (26), with Major qualification and very varied Retail experience, desires to represent Manufacturing firm or position in Laboratory. Address, 50/1, Office of this Paper.

WHOLESALE.—Young man, energetic, requires situation as Dry or Wet Counterman; 8 years' Wholesale experience; good parcel marker. "Druggist," 62 Mountergate Street, Norwich.

TRAVELLER, Country; has represented for last 13 years high-class London firm in Perfumery and Fancy Soaps, covering greater part of United Kingdom. M. R., c/o Leonard Courtney, 185½ Aldersgate Street, City, E.C.

MISCELLANEOUS.

Special charges are made for Advertisements under this heading, which can be obtained on application.

DAISY (LIMITED), Leeds, will be happy to advertise (at reasonable rates) in Chemists' Lists, &c., &c.

"PRIMUS" SULPHUR TABLETS, 31*s.* cwt., 5 cwt. 30*s.*; samples free. Christy, Smithfield's Laboratory, Curzon Street, Leicester.

PROFITABLE high-class Agency offered to gentlemen having a good connection, and calling on Chemists and Druggists. Apply, J. P., c/o Eureka Flour Mills, Lenton Boulevard, Nottingham.

ESSENCE of Strawberry (overstocked); prepared from fresh ripe fruit; rich colour; excellent fruity odour and flavour. Samples and prices on application, 50/26, Office of this Paper.

"PREMIER" SULPHUR TABLETS.—Cheapest in the market and the best; 33*s.* per cwt., 5-cwt. lots 32*s.*, carriage paid; special quotations for large quantities; samples free on application; Sulphur and Sarsaparilla Tablets at same rates. Tennent & Co., 504 Barking Road, London, E.

UNFURNISHED Residential Rooms required by Dentist (married, one child, 8 years), London or suburbs, where opening exists for evening practice; terms must be moderate and inclusive; to save time, state full particulars and terms in first letter. "Deutist," 32 Sheen Park, Richmond, London.

ADVERTISER, having had considerable experience in introducing Specialities among Chemists (with office and storehouse in Birmingham), is prepared to take up a really good Agency with a view to creating a demand, or would undertake the distribution of advertised articles; trade and bank references. Address, K., 28 Navigation Street, Birmingham.

100% PROFIT ensured by selling Curic Wafers, the absolutely safe and certain cure for Headache, Toothache, and Neuralgia. Striking window show, with mechanical attraction, for one dozen order (9*s.*) P.A.T.A., at face value. A really sound Chemists' line, giving the utmost satisfaction to Chemists and their customers. Write for particulars to The Curic Co., Leadenhall House, London, E.C.

CHEMISTS' Shop-fixtures.—Ranges mahogany drawers, with bevelled-edge glass labels and cut-glass knobs, shelving above, lockers below; mahogany dispensing-screens; counters with glass-case fronts; wall-cases; hent-front and flat-top counter-cases; counter-desks; tooth-brush cases; complete shop-rounds, &c.; every requisite for Chemists, new and second-hand; extensive stock to select from, at extremely low prices; practical men sent to all parts; estimates free. Matthews, Chemists' Fitter, 14 Manchester Street, Liverpool; Works: 9 Preston Street. Telephone 6695.

CHEMIST'S high-class fittings at low prices:—14 ft. range of mahogany-fronted drawers, bevelled-glass labels, cut-glass knobs, £8 15*s.*; 12 ft. mahogany-top and plate-glass fronted serving-counter, £10 10*s.*; ditto, 10 ft., £9; 6 ft. mahogany and bent plate-glass counter-case, display-shelves and velvet-lined trays, 97*s.* 6*d.*; 5 ft. ditto, 80*s.*; cheap house for window-enclosures, alterations, wall-cases, dispensing-screens, glass shelves, incised facias, wood letters: Chemists fitted complete: estimates free. Mills, Shop-fitter, Shop-front Builder, Steam Works, 163-5 Old Street, London, E.C. (late 203 City Road).

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MISCELLANEOUS—*cont.*

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MR. G. E. SKERRY, Principal

A MANUFACTURING Chemist, with a Distributing Business, would like to merge it into a large Company, may hear of something that will meet his views by addressing "Progress" (25/19), Office of Paper.

In the matter of PRICE & BURNETT (LIMITED), in Liquidation.

NOTICE IS HEREBY GIVEN that the Creditors of the above named Company are required, on or before the 14th day of April, 1899, to send their Names and Addresses, and the particulars of their Debts or Claims against the above-named Company up to the 1st day of August, 1898, being the date of the appointment of a Receiver and the Names and Addresses of their Solicitors (if any) to FREDERICK EDWARD JOHNSON, of Number 11 Blanket Row, Hull, the Liquidator of the said Company, and, if so required by notice in writing from the said Liquidator, are, by their Solicitors, to come in and prove their said Debts or Claims at such time and place as shall be specified in such notice, or in default thereof they will be excluded from the benefit of any distribution made before such debts are proved.

GEO. TWELL, 15 Bowlalley Lane, Hull,
Solicitor to the above-named Liquidator.

Dated this 1st day of March, 1899.

Exchange Column—Bargains.

½d. *per word with name and address.* **1d.** *per word if we register the address and attach a number*

No Advertisement inserted for less than 6d.

Remittances payable to EDWARD HALSE, and crossed MARTIN'S BANK, LIMITED.

FOR DISPOSAL.

APPARATUS

1-gall. tinned-copper still, with worm and condenser, 30*s.*, or exchange Barclay's pressure-filter, &c. WARD, Chemist, Denaby Main, near Rotherham.

Enterprise tincture-press, perfect, 16*s.*: American suppository-mould, for squeezing out mass several sizes, with bougie-mould, 30*s.* "PHARMAKOS" (46/20), Office of this Paper.

BOOKS AND PERIODICALS.

"C. & D.," 1885 to 1893, bound, 16 vols. for 10*s.*; Diaries, 1885 to 1899, 10*s.* HOLMES, Chemist, Margate.

"C. & D.," March 1893 to March 1899 inclusive; what offers? J. M. ALDWINCKLE, 44 St. Stephen's Road, Leicester.

Bargain.—4 years' *Chemist and Druggist*, clean as new, 12*s.* 6*d.* cash, or exchange "Pharmaceutical Formulas," botanical, homœopathic or eclectic books. SELF, 40 Philip Road, Ipswich.

"The Lancet," 1850 to 1863, in splendid condition, uniformly bound in half-calf, gilt lettering, in 27 vols.; offered for 18*s.* 6*d.*, a rare opportunity. JONES, 15 High Street, Carnarvon.

"The Microscope and its Revelations," Carpenter (edited by Dallinger), 7th edit., 12*s.* 6*d.*; Wilson's "Anatomist's Vade-Mecum," 11th edit., 7*s.* 6*d.*; both unsoiled. CAIRNS, 32 St. George's Place, S.W.

Martindale, 6th and 7th editions; Squire, 16th; Muter's "Analytical Chemistry," 4th edition, Wills's "Pharmacy," 7th, both with notes used for Minor; Wills's "Elementary Materia Medica," 10th; best offer for all or each. HAWTHORNE, Brentford.

DRUGS AND CHEMICALS.

2 lbs. pulv. ipecac. opt., 15*s.*; 7 lbs. bell camph., 1*s.* 8*d.*; 25 oz. Hds.' quin. sulph., 1*s.* 5*d.*; ½ cwt. cream tartar, 1898, 80*s.*, or part. HUNT, Chemist, Reading.

FORMULÆ.

Formulæ.—Headache-powders, new discovery; neuralgic and cough mixtures; corn-cure; influenza specific; sale enormous; 2*s.* 6*d.* free. "CHEMIST," 9 Lady's Lane, Northampton.

OPTICAL AND PHOTOGRAPHIC.

60 microscope-slides, 2*s.* doz., 9*s.* the lot; exchange; approval. LINTIN, 170 Freedom Road, Sheffield.

Microscope, by Field, Birmingham, interchangeable objectives and eyepieces, revolving diaphragm, good condition, £3 3*s.*, or offer. WILLIAMS, 76 Farm Road, Langley Green, Birmingham.

PROPRIETARY ARTICLES.

Overstocked.—"Frog-in-your-Throat," 6 doz. 7½*d.* size, quite new, 4*s.* 9*d.* per doz., post paid. BENNETT, Chemist, Newton Abbott.

2 doz. Zomela oint.; 2 doz. skin-cream; 2 doz. toilet-powder; 4 soap; good condition. ICDRICK, 9 Belmont Place, Exeter.

SHOP FITTINGS.

6-gall. pear-shaped carboy, cut stopper, with stand. KEINCH, Chemist, Horwich.

A handsome 20-in. globe-lamp for sale, ruby glass, richly gilded, perfectly new, with bracket complete, £3 10*s.*, worth nearly double. HUMPHREY, 121 Charing Cross Road, London.

To Chemists commencing.—To be sold in March, valuation or otherwise, the entire fittings, fixtures, glass cases, bottles, globes, mirrors, of a modern fitted shop in Birmingham. Particulars from B. H. SOUTHALL, Birmingham.

MISCELLANEOUS.

Air-bed, with pillow attached, 4 ft. square, good condition, bellows included. Offers to BELL, Chemist, Spalding.

For sale.—Gledhill's cash-till, 50*s.*; Munyon's remedies, about £5 worth less 25%, carriage paid, selling kinds. 51/1, Office of this Paper.

80-oz. graduated percolator, 2 tubes; 1 4-gall., 2 2-gall. carboys, some pear-shape; 1 oz. guaiacol carbonate; 1 oz. finest Tonquin musk; small steam-engine, about 1½ horse-power; reasonable offers or exchange LIVESEY, Preston.

21 vols. *Year-book of Pharmacy,* accept cash or exchange; 6 doz. 1*s.* 6*d.* and 2*s.* 9*d.* Holloway's coca and meat-and-malt wine, half selling price; Maw's pillar dispensing-scales, fig. 7, half-price; quantity of assorted sizes, 3*d.* per gross. FLOYD & Co., Bury St. Edmunds.

Hooper's "Vade-Mecum" (Guy), 12*s.* 6*d.*, take 7*s.* 6*d.*; Low's "Agriculture," illustrated. 21*s.*, take 7*s.* 6*d.*; bomœopathic case, advertised last week for 15*s.* 6*d.*, take 12*s.* 6*d.*; 5 keys (dental) 2 without handle, 6 fittings, tweezers, 5*s.*; bargains. LEA, 9 Lady's Lane, Northampton.

Printing-press, metal type, chase, comp. stick, complete, print own bills, specimen sent, 40*s.*; herbarium pharmac., 60 good mounted specimens in book, for Minor, 10*s.*; Bentley's "Botany," 1887: Attfield's "Chemistry," 11th edition; Pereira's "Selecta." JONES, 268 Watson Road, Hightown, Manchester.

About 100 gross glazed porcelain unions for feeding-bottles, in 5-gross cartoons, 1*s.* 6*d.* per gross, or 10½*d.* to clear; 30 gross glazed porcelain comforter mounts, in 5-gross cartoons, 1*s.* 6*d.* per gross, or of 10 gross collapsible tubes for 1*d.* tooth-paste, &c., 3*s.* per gross 1-gross boxes; 100 gross brass clips for carding comforters, &c., 1*s.* per gross; or what offers to clear? sample parcels forwarded on receipt of amount. BROOKE, 344 Mare Street, N.E.

WANTED.

Copper-still for water. Particulars to E. WIGHTMAN BELL, Spalding.

Machine for piping, cutting, rolling pills. Particulars, Box 179, Bristol.

A desk and show-case, similar to No. 15, Maw's list. COOPER, West-super-Mare.

"The Chemist and Druggist" for October 30, 1897. S. B., Office of this Paper.

Dental-engine and chair, for cash or good exchange. SPENCE, High Street, Ilkestou.

Weighing-machine for shop, good condition, and cheap. HOLT, Chemist, Margate.

Small cash-register, cheap, good condition; state size and make. 49/1, Office of this Paper.

To exchange, 24 5-gr. pill-machine for 60 or 90 gr. suppository-mould. 48/8, Office of this Paper.

Letter-copying press, with or without stand. Lowest price to BAILEY'S Gout and Rheumatic Pill Department 14 Broadgate, Coventry.

Good ¼-plate camera, with tripod and accessories; or exchange 33*s.* No. 2 bulls-eye kodak, splendid lens. GIBBS, 20 South Front, Southampton.

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Fownes' "Organic Chemistry," Green's "Botany," vol ii., Deschanel's "Physics," Malsch's "Materia Medica," late editions, in good condition. GIBSON, 29 Mosley Street, Newcastle-on-Tyne.

Printed by SPOTTISWOODE & Co., New-street Square: and Published at the Office, 42 Cannon Street, in the City of London.—*March* 11, 1899.

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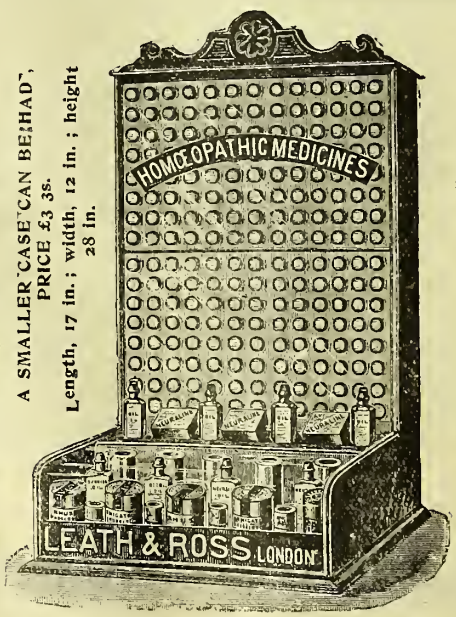
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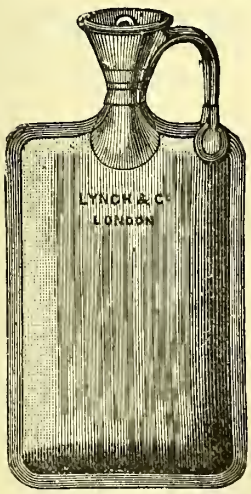
14/6 per doz.

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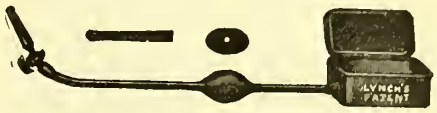
8 × 12 each	—	3/11	10 × 12 each	—	5/6
8 × 10 „	—	4/5	10 × 14 „	—	6/3
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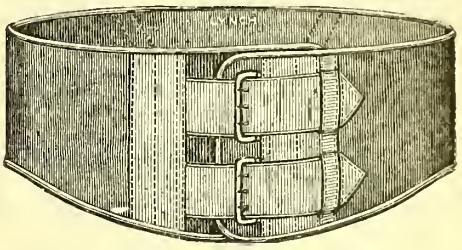
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The above illustration represents an Enema which is arranged so that the box will form the reservoir for the fluid to be injected. By being used in this way any possibility of injecting air is avoided, owing to the fact that the suction end of Enema is screwed into bottom of reservoir. It is light and portable, and most suitable for travelling. The Enema is made of the finest quality rubber in one continuous length, and will last for many years with ordinary usage; it is also fitted with our patent non-corrosive glass valves. The reservoir which forms the box is made of iron, enamelled inside and out.

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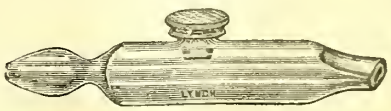
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TOMLINSON & HAYWARD, Mint Street Chemical Works, **LINCOLN**

Telephone Number, Bank 852. Telegraphic Address—CHEMICUS LONDON.

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Beaufoy & Co.

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Corsan, J. R.
Sharland & Co.

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Apollinaris Co.
Barnett & Foster
Bnrrowe, W. & J.
Chemists' Aerated Mineral Waters Association Lim.
Ellis & Son (Ruthin)
Idris & Co., Lim.
Ingram & Royle, Lim.
Jewsbury & Brown
Kronthal Water Co., Lim.
Mills & Co. (Bonrne)
Moore & Co.
Rosbach Springs, Lim.
Saintaris Water Co.
Smith, W. E., & Co.
Vitæ-Ore Co., Lim.
Whitwill, Mark, Son & Judge

AERATED PLANT
(See SYPHONS and ESSENCES)
Barnett & Foster
Bertle-Smith & Co.
Tyler, Hayward & Co.

AGENCIES ABROAD
Abld, A., & Co.
Byrne, F. J.
Jones, B. Owen, & Co., Lim.
Kempthorne, Prosser & Co.
Lennon, G. B., & Co. (N.Z.)
Peake, Allen & Co.
Smart & Copley
Smith & Sons
Taylor & Colledge

AMMONIA
May & Baker, Lim.
Scrnbb & Co.
White, A., & Sons
Woodcock's Ammonia Foam Co., Lim.

ANNATTO
Baker, J. W
Crawshaw, E., & Co.

APPARATUS
Bennett, Sons & Shears
Berend, O., & Co.
Brewster, Smith & Co.
Müller, C. E., & Co.
Peroni, A.
Southall Bros. & Barclay
Woolley, J., Sons & Co.

BATH SALTS
Tidman & Son, Lim. (Sea Salt)

BEESWAX
Bowdlear, W. H., & Co.
Evans, Sons & Co.
Leonhard, T.
Lüneburger Wachsbleichs

BICARB. SODA
Brunner, Mond & Co., Lim.
Howards & Sons
May & Baker, Lim.

BISMUTH PREP.
Hewlett & Sons
Howards & Sons
May & Baker, Lim.
Tyrer, T., & Co.
White, Alfred, & Son

BOOKS, &c.
Churchill, J. & A.
Muter's, Dr., Anal. Chem.
Squire's "Companion"

BOTTLES, POTS, &c.
Ayrton & Saunders
Barnett & Foster
Barrett, R. H.
Breffits. Lim
Fitch Glass Co.
Hearns, Lim.
Isaacs & Co. | Klfner Bro
Lynch & Co., Lim.
Maw, S., Son & Thompson
Poths, H., & Co.
Stipendum Stopper Co., Lim
Toogood, W.
York Glass Co., Lim.
Youidon, E.

BOXES
Anstin & Co. (Cardboard)
Evans, Sons & Co.
Glover, C. H., & Co.
Kent, G. B., & Son
Patent Stopper, Box, and Stamping Co., Lim. (Tin)
Robinson & Sons
Tinplate Decorating Co.

BRUSHES
Addis, R., & Son
Evans, Sons & Co.
Hovenden & Sons
Kent, G. B., & Sons
Wimpory, E.

BUNSEN BURNERS
Berend & Co.

BUTTER COLOUR. &c.
Allison, Johnson & Foster, Lim.
Baker, J. W.
Crawshaw, E., & Co.

CACHETS
Christy, T., & Co.
Cooper & Co.
Sangers, J., & Son

CAMPHOR
Howards & Sons
May & Baker, Lim.

CACHOUS
Allen & Hanbnrys, Lim.
Bleasdale & Co., Lim.
Carmichael, M. W.
Denouai, J.
Jackson, T.
Lloyd, T. H., & Co.
Raimes & Co. | Sen Sen Co
Warrick Bros.

CAPSULES
Allen & Hanbnrys, Lim.
Denonal, Jules
Duncan, Flockhart & Co.
Evans, Lescher & Webb
Lloyd, T. Howard, & Co.
Lolthonse & Saltmer
Mason, C. E., & Co.
Warrick Bros.

CARBOLIC ACID
Calvert & Co.
Stevenson, H. E., & Co.

CARBONIC ACID GAS
Carbonic Acid Gas Co.

CARRIER TRICYCLES
Singer Cycle Co., Lim.

CASCARA SAGRADA
Duncan, Flockhart & Co.
Evans, Lescher & Webb
Ferris & Co.
Galen Mannfact'ing Co., Lim.
Harker, Stagg & Morgan
Parke, Davis & Co.

CASTOR OIL
Hull Oil Mfg Co., Lim.
Love, H. F., & Co.
United British Castor Oil Co., Lim.

CHALK, PRECIP.
Levermore, Aug., & Co.

CHECK TILLS
British Machine Co., Lim.
O'Brien, T.

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Brunner, Mond & Co., Lim.
Burgoyne, Burbidges & Co.
Davy, Hill & Son, Yates & Hicks
Evans, Lescher & Webb
Evans, Sons & Co.
Goodall, Backhous & Co.
Howards & Sons (Pharm.)
Kirkpatrick, Barr & Gnthrie
Lolthouse & Saltmer
Love, H. F., & Co.
Macfarlan, J. F., & Co.
May & Baker, Lim.
Sanitas Co., Lim.
Scottish Acid & Alkali Co., Ld.
Smith, B. A., & Co.
Smith, T. & H., & Co.
Stevenson, H. E., & Co.
Typke & King
Tyrer, T., & Co., Lim.
Voss, Walter, & Co.
Washington Chemical Co.
White, A., & Son

CHEST PROTECTORS
Liverpool Patent Lint Co.
Maw, S., Son & Thompson
Solport Bros.
Wood, Vincent

CHLORIDE OF LIME
Hebden, W. C.
Steele, J. C. & Co.

CHLORODYNE
Davenport (Browne's)

CHLOROFORM
Duncan, Flockhart & Co.
Macfarlan, J. F., & Co.
Smith, T. & H., & Co.

COCAINE-HYDRO.
Howards & Sons

COCA WINE
Burrough, J.
Evans, Lescher & Webb
French Hygienic Society
Holloway Wine Co., Lim
Stephen Smith & Co. Lim (Hall's)
Wilcox & Co., Lim.
Wright, Layman & Umney

COCOA & CHOCOLAT
Cadbury Bros.
Fry & Sons
Van Houten
Vi-Cocoa (Dr. Tibbles')

COD-LIVER OIL
Allen & Hanburys
Burroughs, Wellcome & Co.
Evans, Lescher & Webb
Evans, Sons & Co.
Goodall, Backhouse & Co.
Harker, Stagg & Morgan
Kemp & Son
Linton, Hubbard & Co.
Lofthouse & Saltmer
Moller, Peter
Randall & Son
Smith, T. & H., & Co.
Spratt's Patent (Dog Cakes
Scott's Emulsion
Southall Bros. & Barclay
Stevenson, H. E., & Co.
Wright, Layman & Umney

CONCENT. LIQUORS
Baiss Bros. & Co.
Fletcher, Fletcher & Co.
Lloyd, T. Howard, & Co.
Robinson B.

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Marshalls Lim.
Vigo, Jules, et Cie.

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Burronghs, Wellcome & Co.
Leo & Co.
Lloyd, T. Howard, & Co.
Parke, Davis & Co.
Wright, Layman & Umney

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Dunhill & Co.
Gibson & Sons
Gnest, T., & Co.
Hillabys, Lim.

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Cork Co., Lim.
Ellis, W., & Co.
Bingrose & Cobb

CORN CURES
Gardner, C. | Potter & Clarke
Solport Bros.

CRUSHED LINSEED
Mumford, G. S.
Nell, R. & J.

DENTIFRICES, &c.
Beecham, T.
Beetham, T., & Son
Hovenden & Sons
Jewsbury & Brown
Mason, C. E., & Co.
Ollapearl Co.
Stevens, P. A.
Snttou, O., & Co.
Woods, W. (Areca Nut)

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Fentiman, A. G.
Fentiman, A. J., & Co.
Spencer & Son

DISINFECTANTS
Allison, Johnson & Foster, Lim.
Calvert, F. C., & Co.
Cbinosol Hygienic Co., Lim.
Dussek Bros.
Fletcher Bros. & Co.
Formalin Hygienic Co., Lim.
Hebden, W. C. | "Izal"
Jeyes' Sanitary Compounds Co.
Kay Bros., Lim.
Kuhn, B. (Chinosol, Kresochine)
Mackey, Mackey & Co.
Major & Co., Lim.
May & Baker, Lim.
Sanitas Co., Lim.
Steele, J. C., & Co.
Tomlinson & Hayward
Tyrer, T., & Co., Lim.
United Alkali Co., Lim.

DOG MEDICINES
Lloyd, T. Howard, & Co.
Spratt's Patent, Lim.

DRUGGISTS' SUNDRS.
Ayrton & Saunders
Barclay & Sons, Lim.
Benjamin, H. S.
Bleasdale & Co., Lim.
Burge, Warren & Ridley
Dailley & Wilkinson
Dent, C. S., & Co.
Edgar's Croup Lotion, Lim.
Evans, Lescher & Webb
Evans, Sons & Co. (Savars)
Fordham, W. B., & Sons, Lim.
Gillespie & Co.
Hovenden & Sons
Kay Bros., Lim.
Kennedy Co.
"Leaf" Brand Hat Reviver
Lorimer & Moyes
Marshalls, Lim.
Maw, S., Son, & Thompson
May, Roberts & Co.
Newbery, F., & Sons
Parozone Co., Lim.
Qneich, H. C.
Roberts & Sheppey
Sanger & Sons | Schntze & Co.
Smith, John H., & Co.
Solport Bros.
Southall Bros. & Barclay
Tidman & Son | Toogood, W.
Wood, Vincent
Woolf, E.

DRUG GRINDERS
Allen, S., & Sons
Nell, R. & J., & Co., Lim.

DRUGS
Bleasdale & Co., Lim.
Lofthouse & Saltmer
Love, H. F., & Co.
Nell, R. & J., & Co., Lim. (and Spices)
Oppenheimer, Son & Co
Richardson, J., & Co. (Leicester), Lim.
Stevenson, H. E., & Co.
Wyley's, Lim.

DYES
Crawshaw, E., & Co.
Itsem Household Dye Co.
Maypole Soap Co., Lim.

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Farina, J. M.
Sainsbury, S.
Van Oppen & Co.

EMBROCATION
Day & Sons
Ellman, Sons & Co.
Harvey & Co.
Post, A. M., Lim.
Sanitas Co., Lim.

ENEMAS
Barclay & Sons, Lim.
Evans, Sons & Co.
Lynch & Co., Lim.
Sanger & Son | Wood, Vincent
Woolley, J., Sons & Co., Lim.

ESSENCES
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Barnett & Foster
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Bush, W. J., & Co.
Fletcher, Fletcher & Co.
Goodall, Backhouse & Co.
May & Baker, Lim
Newball & Maeon
Stevenson & Howell
Woolley, Sons & Co.

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Allen, S., & Sons
Barnett & Foster
Bush, W. J., & Co.
Essential Oil Importers and Exporters, Lim
Evans, Sons & Co.
Jakson, J., & Co.
Jeancard, Gazan & Doumin
London Essence Co.
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Sozio & Andrioli
Spurway & Cie.
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Howards & Sons
Macfarlan, J. F., & Co.
May & Baker, Lim.
Tyrer, T., & Co.
White, A., & Sons
Wright, Layman & Umney

EUCALYPTUS OIL
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Sanitas Co., Lim.
Sharland & Co.
Tasmanian Eucalyptus Oil Co

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Armour & Co. | Brand & Co.
Beaufoy & Co.
Liebig Co.

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Allen & Hanburys
Allen, G., & Co.
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Burgoyne, Burbidges & Co.
Evans, Sons & Co.
Fletcher, Fletcher & Co.
Hearon, Squire & Francis
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Wilkinson & Simpson, Lim.
Wright, Layman & Umney

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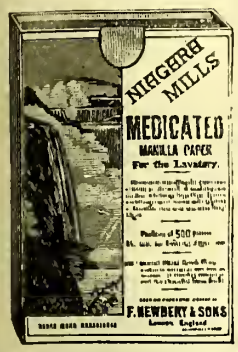
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INSOLUBLE SALTS. These are so manufactured as to rapidly disintegrate on coming into contact with water. Tablets for the throat and mouth are so compressed as to dissolve slowly, thus producing a steady flow of the drug over the affected parts.

Nauseous Drugs can be had sugar-coated (Fig. 2).

These are supplied in bulk, or nicely put up in vinaigrette bottles, as Fig. 1. A few kinds, as Chlorate of Potash and Voice, are also put up in small tin boxes.

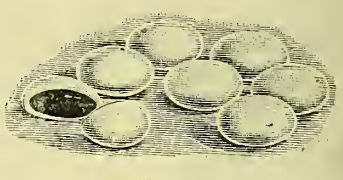


Fig. 2.

PRICES IN SCREW-CAPPED BOTTLES.

	Per doz.
Acid. Salicylic. gr. 3, 25 in bot. at	3/-
Aloin Comp. ... ... 60 ,, ,,	8/-
Aloin and Cascara ... 50 ,, ,,	7/3
,, 100 ,, ,,	12/-
Ammonol gr. 5, 8 ,, ,,	8/-
,, ,, 25 ,, ,,	21/-
Ammon. Brom. ,, 5, 25 ,, ,,	3/6
,, ,, 5, 100 ,, ,,	7/6
Ammon. Chlor. ,, 3, 30 ,, ,,	3/9
,, ,, 3, 100 ,, ,,	6/6
Antifebrin ,, 5, 25 ,, ,,	3/6
Antipyrin ,, 2½, 24 ,, ,,	5/3
,, ,, 2½, 100 ,, ,,	14/6
,, ,, 5, 24 ,, ,,	7/3
,, ,, 5, 100 ,, ,,	23/6
Aromatic Confection, with Opium ... 25 ,, ,,	3/6
Bismuth, Pepsin, and Charcoal, gr. 2 gr. 1 gr. 2 25 in bot. at	7/2
Bismuth Subnit. gr. 5, 15 ,, ,,	3/9
,, ,, ,, 5, 25 ,, ,,	6/6
Blaud ,, 5, 30 ,, ,,	3/6
,, ,, 5, 100 ,, ,,	7/-
Caffeine and Antipyrin, gr. 1 gr. 4 24 ,, ,,	17/6
Caffein Citrate ,, 2, 25 ,, ,,	5/-
Casc. Sagrada ,, 2, 25 ,, ,,	3/10
Casc. Sagr., gr. 2, 50 in bot. at	6/6
,, ,, 2, 100 ,, ,,	9/-
Digestive ,, 6, 25 ,, ,,	3/9
,, ,, 6, 100 ,, ,,	12/-
Laxative ... 100 ,, ,,	7/6
Lithium Citras ,, 3, 25 ,, ,,	5/6
Pepsine gr. 2½, 25 ,, ,,	4/-
,, ,, 2½, 40 ,, ,,	7/-
Phenacetin ,, 5, 25 ,, ,,	5/-
,, ,, 5, 100 ,, ,,	13/-
Phenacetin et Caff. Cit., gr. 4 gr. 1, 25 ,, ,,	6/6
Phenazonum ,, 5, 25 ,, ,,	6/6
,, ,, 5, 100 ,, ,,	19/-
Pot. Bicarb. ,, 5, 40 ,, ,,	3/6
,, ,, 5, 100 ,, ,,	5/-
Pot. Chlor. ,, 5, 40 ,, ,,	3/10
,, ,, 5, 100 ,, ,,	5/-
Pot. Chlor. & Borax, 40 ,, ,,	3/6
Potass Citrate ... 25 ,, ,,	3/-
Quin. Bisul. gr. ½, 50 ,, ,,	5/-
,, ,, ½, 100 ,, ,,	7/-
,, ,, 1, 36 ,, ,,	5/-
,, ,, 1, 100 ,, ,,	8/-
,, ,, 2, 24 ,, ,,	5/-
,, ,, 2, 100 ,, ,,	10/-
,, ,, 3, 24 ,, ,,	6/-
,, ,, 3, 50 ,, ,,	8/6
Quin. Bisul. gr. 3, 100 in bot. at	13/6
,, ,, 4, 50 ,, ,,	10/6
,, ,, 5, 24 ,, ,,	7/3
,, ,, 5, 50 ,, ,,	12/-
,, ,, 5, 100 ,, ,,	20/6
Rhubarb & Ginger, 25 ,, ,,	3/-
Rhubarb, Ginger, and Soda ... 25 ,, ,,	3/-
Rhubarb Powd. Co. 25 ,, ,,	4/6
Sod. Bic. gr. 5, 40 ,, ,,	3/6
,, ,, 5, 100 ,, ,,	5/-
Sod. Mint ,, 5, 30 ,, ,,	3/6
,, ,, 5. 100 ,, ,,	6/9
Salol ,, 5, 25 ,, ,,	4/6
,, ,, 5, 50 ,, ,,	8/-
Sod. Nitrite ,, 2½, 25 ,, ,,	4/-
Sod. Salicyl. ,, 5, 25 ,, ,,	4/6
,, ,, 5, 50 ,, ,,	7/-
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,, ,, 5, 100 ,, ,,	14/-
Sulphur Comp. 50 ,, ,,	4/-
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,, ,, 4, 25 ,, ,,	6/6
Voice ... ... 30 ,, ,,	3/9
,, ... 100 ,, ,,	7/-
Warburg's Tincture, min. 30, 25 ,, ,,	7/-
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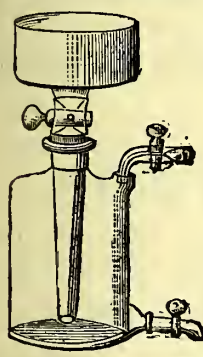
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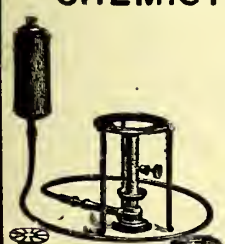
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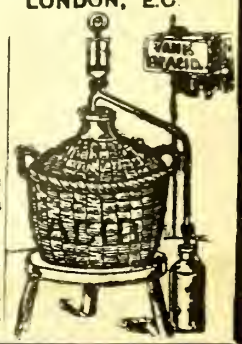
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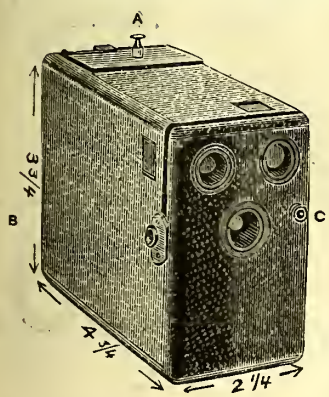
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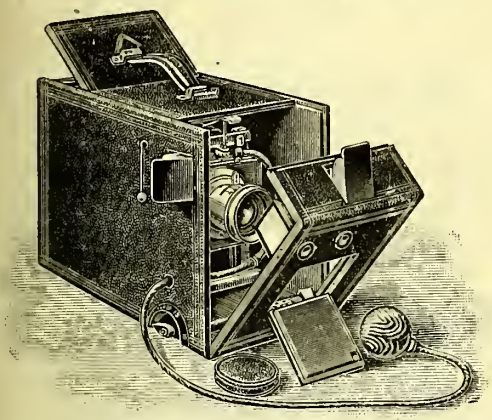
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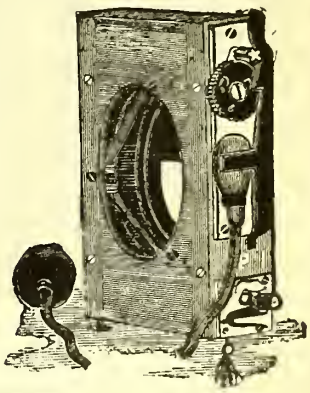
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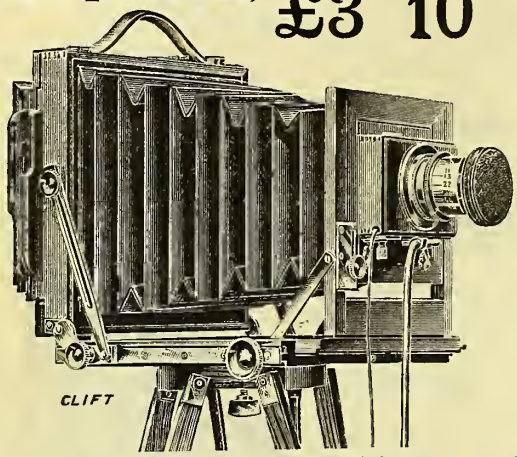
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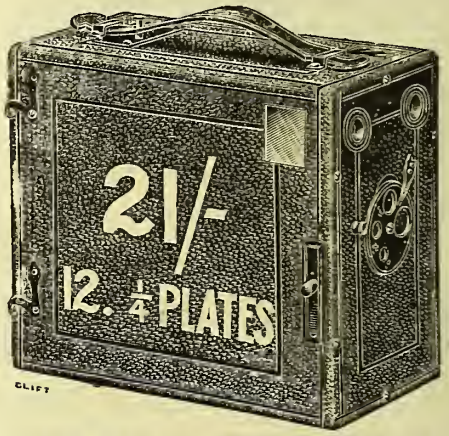
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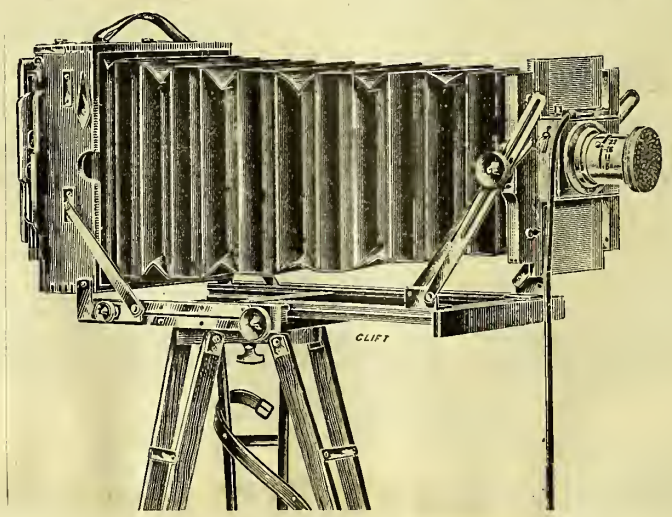
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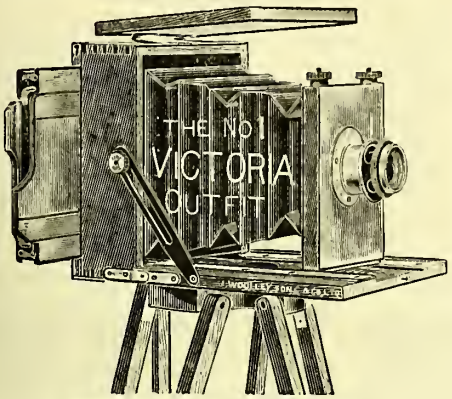
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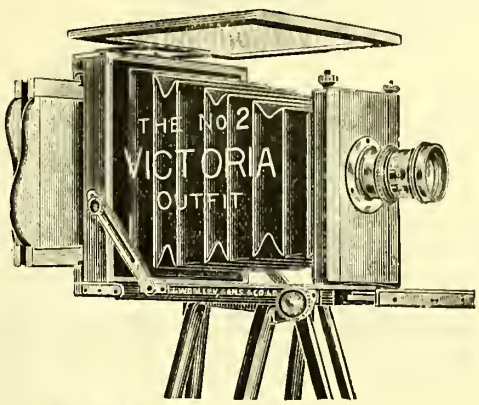
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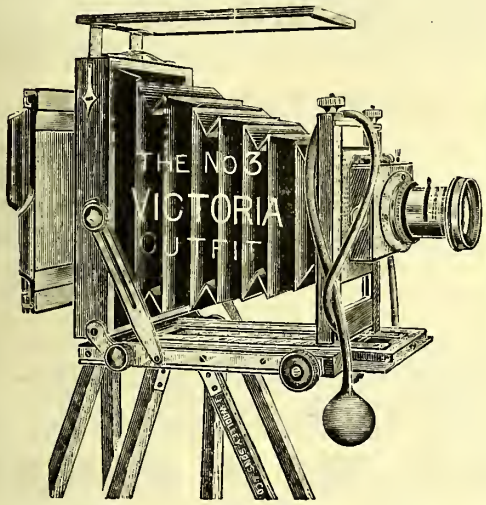
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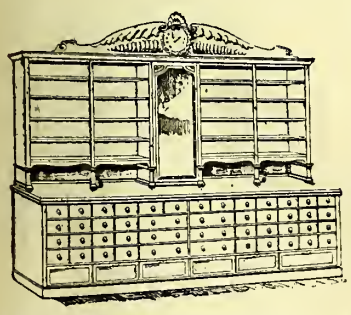
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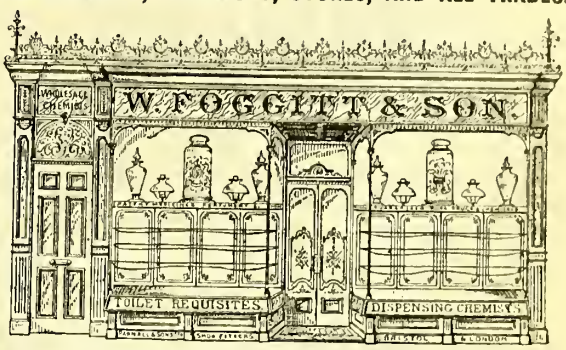
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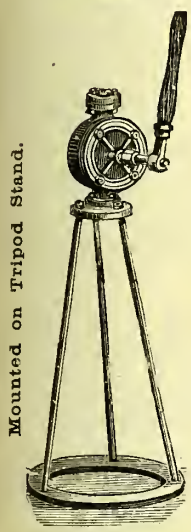
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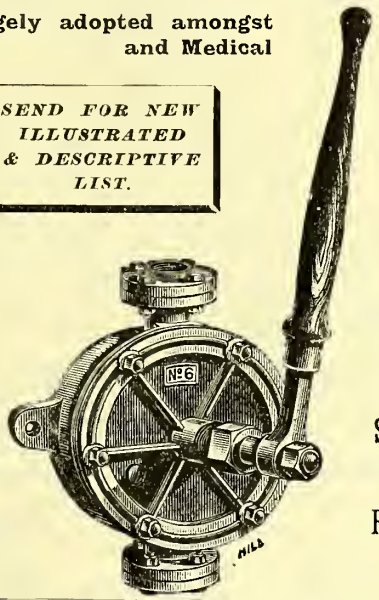
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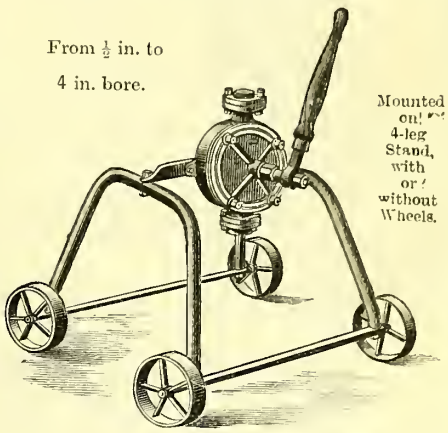
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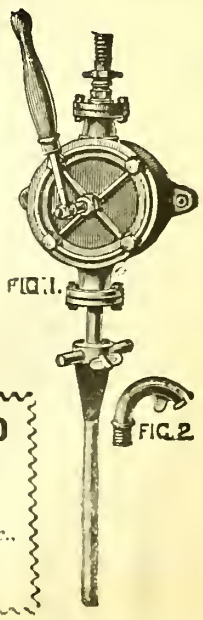


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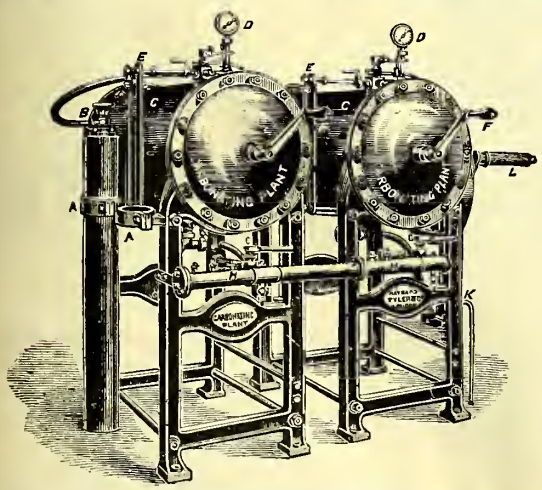
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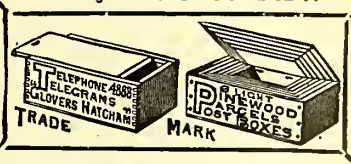
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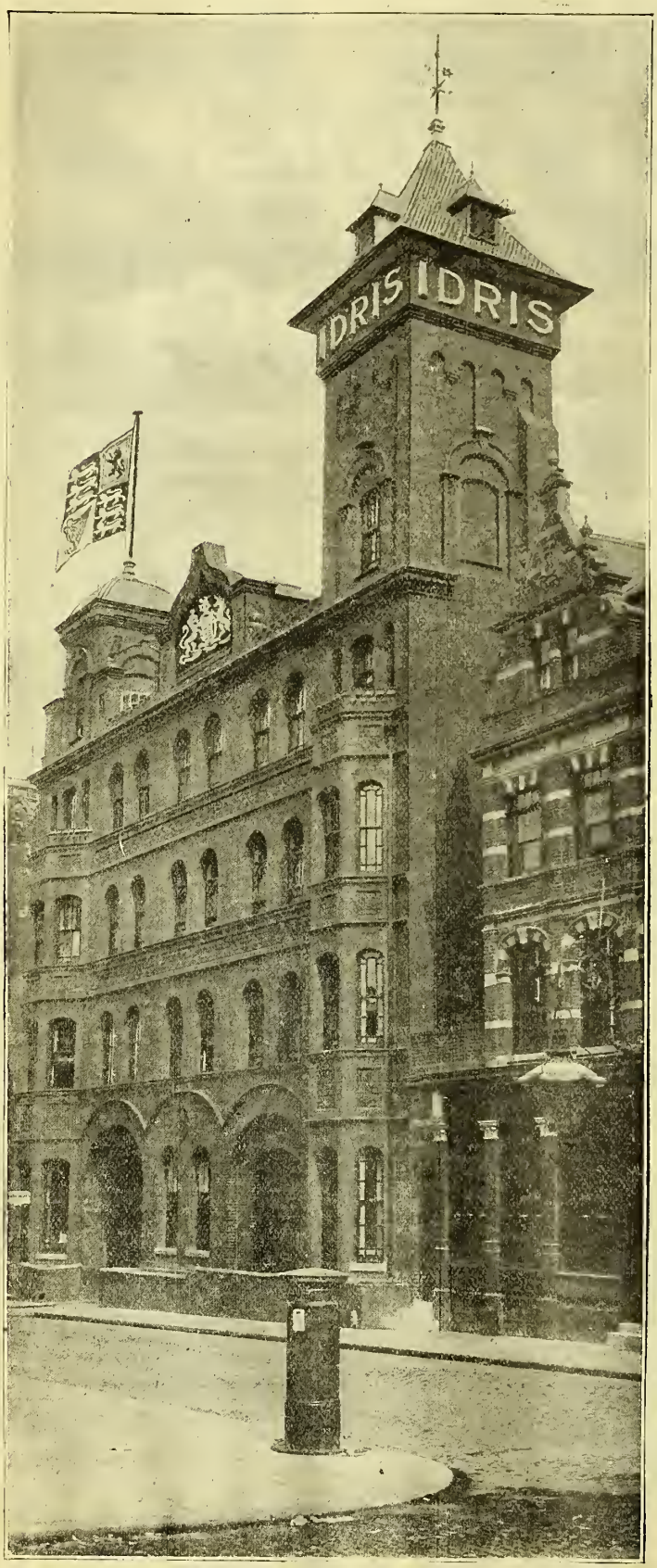
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For the treatment of CHRONIC GASTRIC CATARRH, HYPERÆMIA of the LIVER, GALLSTONES, CHRONIC CONSTIPATION, DIABETES, RENAL CALCULI, GOUT, and DISEASES of the SPLEEN.

SPRUDEL-SALTS

(POWDER or CRYSTALS).

The *Powder* has the great advantage in not being affected by change of temperature or exposure to the atmosphere, and therefore in this form is the most reliable.

"SPRUDEL," "MUHLBRUNNEN," OR "SCHLOSSBRUNNEN"

(Water) in Cases of 50 bottles.

To avoid imitations, please see that THE WRAPPER round each bottle bears our signature

A Sample of the Salt in Powder Free to Members of the Medical Profession.



Sole Importers—INGRAM & ROYLE, Ltd

East Paul's Wharf, 26 Upper Thames Street, E.C.; and at Liverpool and Bristol.

L'EAU D'OREZZA.

This remarkably fine Tonic Mineral Water issues from a spring 1,968 fee above sea level at Orezza, in the Island of Corsica.

It was known and used in France during the last century, but came prominently under the notice o the Medical Profession in that country in the year 1853 through a report published by the Academy o Medicine of Paris of an analysis by a renowned Professor of Chemistry, Dr. Poggiale, confirmed b Mons. Ossian Henri.

Since then the water has been extensively used in France and her Colonies and in Egypt and South America, as well as in Spain and other European countries, and is considered to be the best of all Minera Waters in cases of Anæmia, Chlorosis, Leucorrhœa, and all diseases arising from impoverishment of th blood, and has been found of the utmost value in Gastralgia, Dyspepsia, and affections of the Liver and Spleen caused by residence in tropical climates, and in Debility after long illness, and in Intermittent Fever

It is certified to contain :—

IRON, Carbonate and Protoxide.	**MAGNESIUM, Carbonate.**	**POTASSIUM, Chloride.**
SODIUM, Carbonate.	**CALCIUM, Carbonate.**	**SODIUM, Chloride.**

Traces of Manganese and Arsenious Acid, and has sufficient "free" Carbonic Acid to cause it to effervesce on being poured into a tumbler.

It is the most palatable and digestible of all strong ferruginous waters, and with the addition of a litt Lime Juice or Lemon Syrup makes a pleasant table beverage.

Wholesale Orders for France and her Colonies to be sent to :—3 RUE ROSSINI, PARIS,

And Orders for all other Countries to be sent to

MARK WHITWILL, SON & JUDGE,

6 ST. HELEN'S PLACE, LONDON.

ANDREAS SAXLEHNER,
BUDAPEST.
By special appointment to H.M. the Emperor of Austria and King of Hungary.



ANDREAS SAXLEHNER,
LONDON AGENCY:
TRAFALGAR BUILDINGS, CHARING CROSS, W.C.

NATURAL APERIENT WATER.

"The Prototype of all bitter waters."—*Lancet.*

Hunyadi János,

Known, after 25 years' test in the United Kingdom, as the most popular, safest, and best Natural Aperient Water, is now being supplied through the Distributing Wholesale Houses all over Great Britain and Ireland, at prices fixed by the Proprietor, Mr. Andreas Saxlehner, of Budapest, Hungary, which are as follows:—

Per case of	25	large bottles,	**22/6**	Per doz.	**12/-**
,,	50	small ,,	**35/-**	,,	**10/-**
,,	25	large ,,	**21/-**	Per 10-case lots	
,,	50	small ,,	**32/-**		

For net cash.

SPECIAL QUOTATIONS FOR EXPORT F.O.B. ENGLISH AND CONTINENTAL PORTS.

Telegraphic Address—"TIGRESS LONDON." A B C Code used.

THE

ANGLO-CONTINENTAL CHEMICAL WORKS,

LIMITED!

1 & 2 Rangoon St., Crutched Friars, ***LONDON, E.C.***

4 Albert Square, ***MANCHESTER.***

SACCHARIN

We beg to confirm our previous statements to their FULLEST extent.

We again draw the special attention of all Consumers to our

SACCHARIN "Tigress Brand," **555** times SWEETER than Sugar.

THE PUREST. THE SWEETEST. THE CHEAPEST PRODUCT IN THE MARKET.

MANUFACTURED BY PROCESSES DIFFERING FROM ANY OTHER, WHETHER PATENTED OR NOT.

STRENGTHS SUPPLIED: 555 (purest), 475 and 440 (crystals and "soluble") 350, 330, and 300 (pure and "soluble").

WE DEFY ANY COMPETITION BOTH FOR PRICE AND QUALITY.
EVERY GUARANTEE CHEERFULLY GRANTED.

Special Prices and Terms for Contracts extending over a certain period.
(Delivery as required by customers).

PATENT SPECIALITIES.

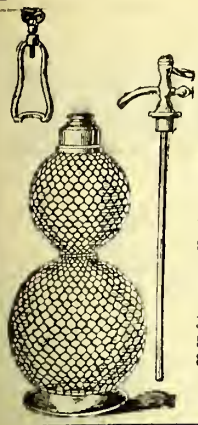
EUCASIN. The best Dietetic, containing 95 per cent. Casein. The most nourishing and strengthening food.

GUAIACETIN. The latest and most approved remedy for Tuberculosis. Combines the properties of Carbonate of Guaiacol and Carbonate of Creosote in a much higher degree without any of their drawbacks.

MIGROL. The most effective and the only harmless remedy for Headache, Toothache, Sick Headache, and all Pains of Nervous Origin.

APPLY FOR SAMPLES AND LITERATURE.

ESTABLISHED HALF A CENTURY.
PRIZE MEDALS AWARDED AT ALL THE EXHIBITIONS.



SUPPORT ENGLISH MANUFACTURE.

EUGENE CÉRAUT & CO.'S LATEST

NEW PATENT SELTZOGENE

The Best Seltzogene Extant & Warranted.

Wear and Working Guaranteed. No more Screwing required. Tap cannot get corroded.

GREAT REDUCTION IN PRICE.

	Patent Wire.	Cane.
3-Pint..	11/-	12/-
5-Pint..	14/9	15/9
8-Pint..	22/6	25/-

Large Discounts allowed off for quantities.

SELTZOGENES & SYPHONS.

SYPHONS.

Best English Block Tin Tops and Ebonite Fittings, from 18/- per dozen.

HEADS of guaranteed quality.

VASES—Best Crystal and Colours.

PRICES ON APPLICATION.

CONTRACTORS TO HER MAJESTY'S GOVERNMENT

The Premier Manufacturers in the United Kingdom.

SOLE ADDRESS—

139 & 141 FARRINGDON RD., LONDON, E.C







THE VERY LATEST AND BEST IN SELTZOGENES

IS THE

"CLINCHER"

SUPERSEDES ALL OTHER SYSTEMS

SYPHONS

ENGLISH MAKE—ONE QUALITY ONLY—THE BEST.

PLAIN OR PORCELAIN LINED HEADS.

WRITE FOR QUOTATIONS TO



THE BRITISH SYPHON CO., 2 Gresham Buildings, Guildhall, LONDON, E.C.

THE BERKEFELD FILTER.

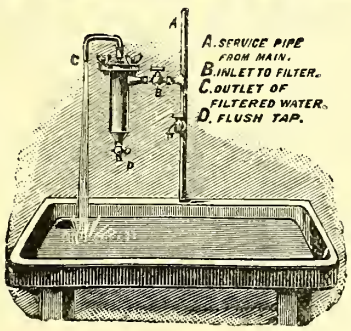
In the Berkefeld Filter the filtering medium is in the form of hollow cylinders or candles of various sizes, made of Kieselguhr, a substance which, on account of its enormous porosity, consisting, as it does, of the silicious skeletons of diatoms, is an ideal filtering medium.

The advantages claimed for the Berkefeld Filters are:—

1.—They are simple in construction, and can be easily cleaned and sterilised.

2.—The filtrate is absolutely free from any suspended matter and from germs, provided proper attention is paid to regular cleaning and sterilising.

3.—They give an output of sterile filtrate from 5 to 10 times larger than any other germ-proof filter.



FILTER H (as sketch) to attach to service-pipe £2 2 0

Smaller size 1 10 0

Glass Table Filters from ... 0 8 9

Extract from the Special Report to the "British Medical Journal" on "The Relative Efficiency of Water Filters," by Drs. Sims Woodhead and Cartwright Wood.

"Experiments were carried out with the Filter H, an exceedingly good model, which seems to subserve the functions of a filter better than any we have yet seen described. . . . The output is so large, that there is no reason why such filters should not supply sufficient water for all household requirements."

"We must accordingly conclude from the extensive series of experiments carried out with these Berkefeld Filters that they afford complete protection against the communication of water-borne disease."

Chemists will find these Filters a profitable line, and one they can confidently recommend to their customers.

Counter Filters specially adapted for Chemists doing a trade in Saline and Summer Drinks.

NO MINERAL WATER PLANT COMPLETE WITHOUT A BERKEFELD FILTER.

FULL ILLUSTRATED LIST AND TRADE TERMS ON APPLICATION.

CORRESPONDENCE AND VISIT TO SHOWROOMS INVITED.

THE BERKEFELD FILTER CO., LIMITED, 121 OXFORD STREET, LONDON, W.

B

AERATED WATER TRADE

TO THE RETAIL CHEMIST.

The public believe that everything a chemist handles is of better quality than a similar article obtained elsewhere, and if it is understood that an article is prepared by a chemist, or under his direction, then it *must* be purity itself. Why this should be we don't know, but our daily experience teaches us that it is the case nevertheless. All our chemist friends tell us the same tale—that when it became known that their Aerated Waters were of their own manufacture, and not the same as could be bought at the neighbouring grocers' or other dealers', the sales began to increase steadily until a very much larger trade was created than it was believed was possible to exist in the district.

Why not take advantage of this state of the public mind, and so manufacture an article for which you already have a demand?

The Summer will soon be with us, but before then just turn over in your mind whether it will not pay you to put in a plant. Or will you let your neighbour forestall you?

The necessary plant is much simpler and less costly than it was in days gone by, and taking up but a fraction of the room occupied by the old-fashioned plant. Besides this, the demand for first-class Aerated Waters is now greater than ever, and is still increasing.

☛ **See the following Page for particulars for the best Mineral Water Plant.**

BARNETT & FOSTER,

NIAGARA WORKS, 26T EAGLE WHARF ROAD,

LONDON, N., & BOLTON, LANCS.

BARNETT & FOSTER

MANUFACTURERS.

The "COMPACT"

CONTINUOUS ACTION

Soda-Water Machine

For use with the Liquefied Carbonic Acid Gas.

Specially designed for use where space is an object, and for those having a large retail trade, such as Chemists, Hospitals, Restaurateurs, Hotel Proprietors, &c. They are ready for work immediately, require no fixing, and produce Aërated Waters of the very highest quality at a minimum of cost.

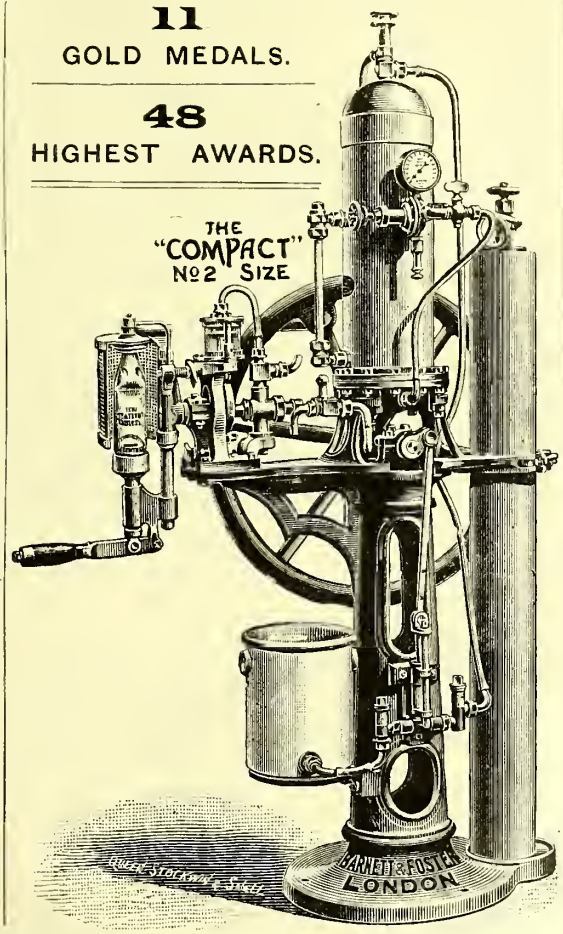
We guarantee to produce a better article with these than any other system adapted for using the Liquefied Gas, and at a lower pressure, thus effecting an immense saving in bottles, and also reducing risk of accidents.

NO DANGER.
NO MESS.
PERFECTLY RELIABLE.

In use by Leading Chemists in all parts of the United Kingdom.

11
GOLD MEDALS.

48
HIGHEST AWARDS.



No. 1 Size, complete with Turnover and Syphon-filling Machine, and fitted with fast and loose Pulleys for driving by Power. Code word *Abbada.* **£60**

Two Fillers included.

Producing Capacity by Hand-power 600 dozen per day.

Ditto by Power, 1,200 dozen per day.

No. 2 Size, complete with Turnover and Syphon-filling Machine. Code word *Abbafa.* **£48**

Two Fillers included.

Producing Capacity by Hand-power 350 dozen per day.

Ditto by Power, 700 dozen per day.

No. 3 Size, complete with Turnover or Syphon-filling Machine. Code word with Turnover, *Abbaga*; with Syphon-filler, *Abbaka.* **£33**

Producing Capacity by Hand-power 200 dozen per day.

Syrup Pump fitted to the Turnover Filling-machine on either of above (*add "s" to code word*), £2 2*s.* extra. If fitted with one Filling-machine only, the two largest Machines are charged £3 less than above prices.

Sole Inventors and Manufacturers of the

"Niagara" Bottle and the London-made Syphon

KNOWN ALL OVER THE WORLD.

Illustrated Descriptive Catalogue of every requirement for the Mineral Water Trade on application.

Niagara Works, 26T EAGLE WHARF ROAD, LONDON, N.

CHEMISTS & DRUGGISTS, ATTENTION!!!

The Celebrated D. FÈVRE'S

SELTZOGENES

ARE

GUARANTEED TESTED

By 175 lbs. of pressure per square inch.

THE TAPS ARE GUARANTEED

PURE BLOCK TIN WITHOUT LEAD



The Celebrated Seltzogene of D. FÈVRE, Eclipsing all others.

None Genuine unless bearing the Words

"VERITABLE SELTZOGENE D. FÈVRE."

AND THE TRADE MARK SIGNATURE, *D. Fèvre*

BEWARE OF IMITATIONS.

ALSO **SIPHONS** GUARANTEED TESTED.

—to:—

Taps, Pure Block Tin, without Lead,



E. THESSIER

LATE THESSIER-FÈVRE,

SOLE MANUFACTURER.

Established 55 years.

9 RUE CASTEX (Near the Bastille), PARIS

Kronthal

WATERS.

Absolutely Natural! Every bottle filled at the Kronthal Springs.

Sole Importers—SCHWEPPES LTD.

Messrs. SCHWEPPES LTD. have pleasure in notifying the general public that they have secured the SOLE AGENCY for the importation of Kronthal Waters into the United Kingdom.

After full enquiry and numerous experiments, Messrs. SCHWEPPES LTD. are of the opinion that the Kronthal Natural Mineral Waters are unsurpassed by any other Waters imported, for use as follows, viz. :—

Kronthal

BLUE LABEL.

A Delicious Table Water.

May be drunk plain, and especially adapted for blending with WINES and SPIRITS, LEMON SQUASHES, FRUIT ESSENCES, CHAMPAGNE and other Cups.

Kronthal

RED LABEL.

A most Palatable, Highly Mineralised Water.

Most valuable in cases of Gout and Stone.

Effects the Elimination of Uric Acid from the Blood.

Laboratory experiments prove that Kronthal (Red Label) is a distinct solvent of Uric Acid and Gouty deposit.

KRONTHAL (Red Label) DISSOLVES SIX TIMES AS MUCH URIC ACID as pure Distilled Water.

RED LABEL ACTS AS A VERY MILD APERIENT.

Kronthal

GREEN LABEL.

An Exceptional Iron Water.

Invaluable in Cases of Anæmia and Chlorosis.

Contains Iron in a very valuable, because easily assimilable form.

Its administration secures the same improvement in bloodless conditions as the well-known Blaud Pill, used so largely by the Medical Profession.

THE LANCET says:—"Our analysis established the purity of these Waters."

For Price List and Particulars apply to THE SOLE IMPORTERS—

SCHWEPPES Ltd., LONDON, W.

Export Enquiries—KRONTHAL COMPANY, Ltd., 53, Berners Street, London, W.

3 factories for

CO_2

THE CARBONIC ACID GAS CO.

LEA BRIDGE ROAD, CLAPTON, LONDON.

POLLARD STREET EAST, ANCOATS, MANCHESTER.

SKINNERBURN ROAD, LOW ELSWICK, NEWCASTLE-ON-TYNE.

ROBINSON'S MULTUM IN PARVO.

Established 1855.



ROBINSON'S

CONCENTRATED WATERS.

Aqua Amygd. Amar. Conc. (U.S.)	4/- per lb.
,, Anethi, Concent....	4/- ,,
,, Anisi ,, ...	4/- ,,
,, Camphoræ ,, ...	4/- ,,
,, Carui ,, ...	4/- ,,
,, Cinnam. Ver. Conc.	6/- ,,
,, Cassiæ Conc.	4/- ,,
,, Flor. Aurant.	8/6 ,,
,, ,, Sambuci Conc.	8/6 ,,
,, Fœniculi Conc.	4/- ,,
,, Menth. Pip. Conc.	4/- ,,
,, ,, Ang. Conc.	6/- ,,
,, Menth. Virid. Conc.	4/- ,,
,, Pimentæ ,, ...	4/- ,,
,, Pulegii ,, ...	4/- ,,
,, Rosmarini ,, ...	4/- ,,
,, Rosæ ,, ...	8/6 ,,
,, ,, Virgin ,, ...	10/6 ,,

The above may be had in ¼-lb., ½-lb., or 1-lb. Bottles and upwards.

STANDARDISED TO B.P. 1898.



NOTE.—One ounce of these Waters added to FORTY ounces of Distilled Water forms a clear Medicated Water (without filtering) similar in every respect to those prepared according to the *British Pharmacopœia*, and free from all chemical impurity.

To be had through all the Wholesale Houses and Merchants.

B.P. 1898.

SHERRY WINE.

ORANGE WINE.

Samples and Prices of the above sent free on application from

B. ROBINSON, Distiller and Brewer of British Wines, CHURCH STREET, **PENDLETON, MANCHESTER.**

"MONTSERRAT"

(TRADE MARK.)

PURE LIME-FRUIT JUICE.

In Imperial Quarts and Pints.

LIMETTA, OR PURE LIME-JUICE CORDIAL.

Aromatic, Clove, Strawberry, Raspberry, Sarsaparilla, Pineapple, Jargonelle, Peppermint, Quinine; also Lime-fruit Juice Syrup.

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N.B.

The "Montserrat Company's" Lime-fruit Juice and Cordials are now in large and general demand everywhere, and are being extensively advertised. Every Chemist should stock them.

Showcards, Handbills, and Leaflets supplied free of charge.

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SOLE CONSIGNEES—

EVANS, SONS & CO., LIVERPOOL.

EVANS LESCHER & WEBB, LONDON.

CANADA:

EVANS AND SONS (LIMITED), Montreal & Toronto, & Victoria (Columbia).

UNITED STATES:

EVANS AND SONS (LIMITED), Boston.

Telephone 522 (King's X). Reg. Cable and Tel. Address—"IDRIS LONDON." A.B.C. Code.



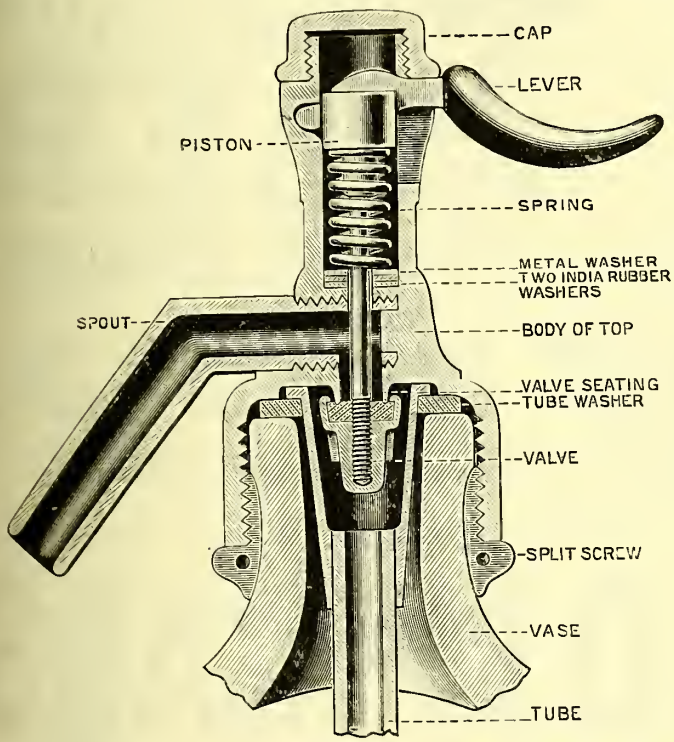
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ENGLISH SYPHONS

The Finest Obtainable,

AND CERTAIN TO GIVE SATISFACTION TO ALL USERS.

These Syphons are in daily use throughout the World, and have been tested by actual use in all climates.



The internal working-parts are well proportioned and accurately adjusted. An examination will show that attention has been paid to all details, both of construction and manufacture.

The vases are especially made of a shape not easily chipped or disfigured at foot. The ultimate bursting-point of these vases is very high; they compare with others relatively as the tensile strength of steel to wrought iron.

Our Silver-plated Syphons are coated with a uniformly heavy deposit of silver of a well-tried thickness, the surface of which is exceedingly hard, smooth, and bright; the result is that our plating invariably gives long service and great satisfaction.

Trade Marks or the finest lines can be beautifully copied, with great distinctness, by our process of glass engraving.

Syphon buyers do well to note that we are manufacturers, not agents. Our "English Syphons" are manufactured, plated, engraved, and completely finished in our Works. We do not engage outside help for any process, and therefore can produce and guarantee uniformity of quality in our Syphons, for we pay very careful attention throughout to accuracy of detail.

WRITE FOR SAMPLES, PRICES, AND FURTHER PARTICULARS TO

Idris & Co., Ltd., Syphon Manufacturers,

(NOT AGENTS.)

5 PRATT ST., CAMDEN TOWN, LONDON, ENG.

MASON'S EXTRACT of HERBS

Makes the Finest Beverage in the World.



FOR MAKING
NON-INTOXICATING
BEER
IMITATED, BUT NOT EQUALLED.

Good! it's Mason's.

☛ **One Table-spoonful of Mason's Extract of Herbs makes One Gallon of splendid Beer.**

29 GOLD MEDALS

Do not be persuaded to buy any other kind, as the market is now flooded with vile rubbish, most of which contain no Herbs at all, and will not produce the same result. We guarantee ours to be COMPOSED OF HERBS.

HANDBILLS, SHOWCARDS, &c., ON RECEIPT OF BUSINESS CARD.

SOLE MAKERS—

NEWBALL & MASON

Telegrams—"Extract Nottingham." **NOTTINGHAM.** Telephone No. 1532

AGENTS WANTED.

TWO ✱ GOOD ✱ LINES.

PROTECTED PROFITS 30 PER CENT.

MINIMUM SELLING PRICE.

HALL'S WINE, PER CASE (1 doz.) ... 27/- ... 3/- Per Bottle.

„ „ „ (2 doz.) ... 31/- ... 1/9 „

KEYSTONE BEEF WINE—The ONLY Wine Prepared with The Liebig Co.'s Extract.

„ „ „ **PER CASE** (1 doz.) 30/- ... 3/3 Per Bottle,

„ „ „ „ (2 doz.) 34/- ... 2/- „

Both these Preparations are well Advertised.

ATTRACTIVE WINDOW DISPLAYS

SENT FREE AND CARRIAGE PAID.

Handbills, Pamphlets, and other printed matter, with own name and address.

Also ARTISTIC SHOWCARDS and DUMMIES FREE, on application to Proprietors—

STEPHEN SMITH & CO., LTD., BOW, LONDON, E.

St. Raphaël Quinquina.

THE MOST WONDERFUL TONIC WINE IN THE WORLD.



The ST. RAPHAËL QUINQUINA has the largest sale of any similar Wine in France. For Loss of Appetite, Anæmic Conditions, and Nervous Depression, it is the most wonderful Tonic Wine ever submitted. Apart from its marvellous restorative properties, it is also a pleasant and agreeable Wine, and can be used as a beverage with Mineral Water.

Show Cards, Handbills, and all Advertising Matter supplied free.

SOLE AGENTS:

BOWEN & McKECHNIE,

Cross Street, FINSBURY, E.C.

PROOF *not Spirit* *but* WINE.

It cannot be disputed that we have taken out and paid for

MORE LICENSES

at Somerset House, for the past six months, than any other firm in the Trade.

Can we be of service to you?

A postcard will fetch our Price List and full particulars.

HOLLOWAY'S WINE CO., LTD.

61 New Oxford St., & Dyott St., LONDON, W.C.

HIGHEST AWARD AT THE INTERNATIONAL EXHIBITION, LONDON, 1885.
TRADE MARK, Registered May 21st, 1867.

MILD DRINKS.
Cherry. Raspberry. Strawberry
Lime Fruit. Black Currant.
Lemon. Orange. Lemon Squash, &c.

THE PIONEER TEMPERANCE BEVERAGES.—Ch. Eng. Temp. Chron.

BECKETT'S
FRUIT SYRUPS & CORDIALS

TRADE MARK W.B. TRADE MARK

HOT DRINKS.
Winterlia. Gingerette.
Ginger Lemon. Peppermint. Clove.
Elderberry. Cherry Punch, &c.

"First-class beverages."—*The Grocer.*
"Have an established reputation."—*Nonconformist.*

"Delicious beverages."—*Scottish Good Templar.*
"Beckett's Fruit Syrups are not to be excelled."—*Anti-Adulteration Review.*

"Exceedingly pleasant."—*The Rock.*
"Invigorating and refreshing."—*Manchester Courier.*

Price Lists and other information sent post free on application to the Manufacturers—W. BECKETT, SONS & CO., Heywood, Manchester.
Wholesale and Export Agents—BARCLAY & SONS (LIM.), 95 Farringdon Street, E.C.; W. EDWARDS & SON, 157 Queen Victoria Street, E.C.; J. SANGER & SONS, 2 Winsley Street, Oxford Street; J. WOOLLEY, SONS & CO., Manchester. District Agents wanted.

IT WILL PAY YOU TO PUSH
COOMBS'
MALTED FOOD
for Infants and Invalids.

AWARDS.
2
GOLD MEDALS.



Recommended by the Medical Faculty and Leading Analysts.
See Drs. Goodfellow's and Granville H. Sharpe's Reports.

Bears a good profit, and is only supplied to those who agree to sell at full advertised prices.
TERMS ON APPLICATION.
COOMBS' "EUREKA" AERATED FLOUR CO., LTD.
Lenton Boulevard, Nottingham, & 8 & 8a Farringdon Road, London, E.C.

CHEMISTS

Who stock "FRAME FOOD" DIET and "FRAME FOOD" JELLY, but obtain their supplies through the Wholesale Houses, are requested to send their address to the FRAME FOOD CO. (LTD.) for insertion in the Company's List of Retailers.

The FRAME FOOD CO. will then refer applicants for free samples (many thousands of which applications they receive) to such retailers for further supplies of F. F. Diet or Jelly.

SHOWCARDS, and Leaflets with Retailer's Address printed in red, sent free on application.

Mention this Paper.



BATTERSEA, LONDON, S.W.

'THE BUSY MOTHER INFANTS' FOOD'

A TRUE and COMPLETE FOOD for Infants and Invalids, in which all requisite **nutrient properties** are so blended as to be partially **self-digestive,** thus imparting the **MAXIMUM** of nourishment to the system, at a **MINIMUM** of digestive effort.

"A PERFECT FOOD."
Dr. A. B. Griffiths, F.R.S. (Edin.), F.C.S.

SOLD IN 1-lb. TINS AT 1/- EACH.

WHOLESALE—1 dozen, 8/6; 3 dozen, 24/-; 1 gross, 84/-. BULK, 45/- cwt. net, Carriage Paid.
Cash or references from new customers.

BLEASDALE, LIMITED, YORK.

BOVRIL

CASH BONUS

To Retail Grocers, Chemists, and Allied Trades in the United Kingdom.

Messrs. BOVRIL, LIMITED, have pleasure in announcing the following Bonus Scheme for the month of March, 1899.

NATURE OF THE BONUS.—The Bonus will be **Five** per cent. (5%) in **Cash** on the Aggregate amount of all Orders sent to the Company direct or to the Wholesale Houses during the **month of March,** and it will be allowed on all Goods appearing on the Company's Current Price List except Bovril Bottlets ($2\frac{1}{2}d.$ size).

HOW AND WHEN THE BONUS WILL BE PAID.—The Bonus will be paid by **Bank Cheque** to be issued from the Company's Head Office immediately the amount due to the Customer has been ascertained and the Company is reasonably satisfied that the undermentioned conditions have been complied with.

The Bonus must not be deducted when payment for Goods is made, but must be considered a separate transaction, and, as already stated, will be paid by cheque.

Conditions to be complied with.

1.—The Customer shall not cut below recognised minimum prices.
2.—The Customer shall display a Bovril Window Bill in a prominent position on each of the Street Floor Windows of all his Business Premises for at least four consecutive weeks, between 1st March and 30th April, 1899.
3.—The Customer shall make prompt payment of accounts according to the Ordinary Trade Terms as specified on slip attached to Invoice.

What to do if you wish to participate.

1.—Fill up the Card sent you, stamp it, and return it immediately, when the number of Window Bills you apply for will be forwarded.
2.—On receipt of Window Bills notify on the postcard which shall accompany the Bills the date when your Windows will be "billed," ready for inspection by the Company's representative.

To Customers ordering through Wholesale Houses.

N.B.—To avoid the great labour that would fall upon the Wholesalers if they had to keep a separate account for every customer, the Retailer is asked to keep an account of all purchases of the Company's Goods, except Bottlets (on which Bonus is not allowed) made during the month of March, forward the account (as his claim for the Bonus) to the Wholesalers from whom the purchases were made, as soon after the close of the month as possible. Suitable forms are supplied for the purpose, and will be forwarded on application either to the Wholesalers, or to

BOVRIL, LIMITED, 30 Farringdon St., LONDON,

Or their BRANCHES in

ENGLAND—Manchester, Leeds, Birmingham, Liverpool, Newcastle-on-Tyne, Hull, Sheffield, Bristol.
SCOTLAND—Edinburgh, Glasgow. IRELAND—Dublin, Belfast.

Outer Gates of South Lambeth Works



ESTABLISHED A.D. 1730.

BEAUFOY'S
EXTRACT of MEAT and MALT
WINE

(Guaranteed Prepared from Liebig's Extract of Meat).

ORANGE WINE (Vin. Aurantii, B.P.), COCA WINE, and QUININE WINE.

A Handsomely-printed Brochure will be sent, Post Free, together with Prices and Samples, on application with Trade Card.

BEAUFOY & CO., SOUTH LAMBETH, LONDON, S.W.

A. MILLAR & CO., LTD., DUBLIN.
PURE ORANGE WINE

(VINUM AURANTII, B.P.) prepared in strict accordance with the Formula of the British Pharmacopœia.

Do You Make Your Own Mineral Waters ?

If NOT you should, for a great many Chemists, Hospitals, &c., are using our simple and most effective Plant, and producing splendid Aërated Waters. Write for List.

RENTAL TERMS ON APPLICATION.

THE VOLCANIC AERATION CO., 203 Great College Street, LONDON, N.W.

REGISTERED TRADE MARK · TOWER · TEA · LIMITED · STRENGTH · LONDON · Jewry Street, London, E.C.

TOWER TEA.

The Best and the Cheapest in the World at the Price.

In ¼, ⅛, and 1-lb. Packets only, to Retail at 1/-, 1/2, 1/4, 1/6, 1/7, 1/8, 1/10, 2/-, 2/4, 2/8 per lb. Also in Handsome 1-lb., 3-lb., and 5-lb. Decorated Tins, to Retail at 1/10, 2/-, and 2/4 per lb.

Agents appointed by

TOWER TEA, LIMITED, 5 JEWRY STREET, LONDON, E.C.

HOLLOWAY'S PILLS & OINTMENT

Have the Largest Sale of any Medicine in the World.

MANUFACTURED ONLY AT

PROFESSOR HOLLOWAY'S ESTABLISHMENT,

78 New Oxford St. (late 533 Oxford St.), London.

And sold at 1s. 1½d., 2s. 9d., 4s. 6d., 11s., 22s., and 33s. each Box or Pot. Chemists and Druggists selling "Holloway's Pills and Ointment" can, on application to the above address, or to the Wholesale House with whom they deal, be supplied free of charge with Handbills and Posters with their name and address printed at foot.

Wholesale Terms see List of "Proprietary Articles" in most Prices Current.

For CLEANING PLATE.

BRADLEY & BOURDAS'S

ALBATUM or WHITE ROUGE

(REGISTERED AS A TRADE MARK)

For CLEANING GOLD, SILVER, and PLATED GOODS.

A trial is only needed to prove its superiority over other Plate Powders in use. Chemists will find it to their advantage to recommend this Powder, as when it is once tried it is always continued to be used.

Sold in Boxes at 1s. and 2s.; Tins, 6s.

48 BELGRAVE RD. & 6 PONT ST., BELGRAVE SQ., LONDON, S.W.

550 Times Sweeter than Sugar.

USE

Refined Saccharin

TO SECURE

Refined Drinks.

Fullest Particulars on application to

THE SACCHARIN CORPORATION, LTD.

165 QUEEN VICTORIA ST., E.C.

PERFECTLY PURE BUT NOT INSIPID.

The "LANCET"

AND

DR TIBBLES' Vi-Cocoa

The "LANCET" says:

"Vi-Cocoa must be assigned a place in the front rank of really valuable foods, since it is the embodiment of all the numerous principles contained in Malt, Hops, Kola, and Cocoa."

THE "BRITISH MEDICAL JOURNAL"

AND

DR TIBBLES' Vi-Cocoa

The "BRITISH MEDICAL JOURNAL" says:

"Vi-Cocoa is a very palatable beverage of great stimulating and sustaining properties."

The "MEDICAL MAGAZINE"

AND

DR TIBBLES' Vi-Cocoa

The "MEDICAL MAGAZINE" says:

"Medical practitioners will find a valuable weapon in Dr. Tibbles' Vi-Cocoa in combating the various conditions of nervous exhaustion and enfeebled digestion. The ingredients of which it is composed are carefully selected, and of undoubted purity and strength."

An ANALYST

AND

DR TIBBLES' Vi-Cocoa

From MATTHEW A. ADAMS, F.R.C.S., F.I.C., F.C.S., *Trinity House, Maidstone; Public Analyst in the County of Kent, and Past President of Society of Public Analysts.*

"In my opinion Vi-Cocoa is a happy combination, enhancing the food value of ordinary Cocoas."

van Houten's Cocoa

The "LANCET" says:—"Pure and unmixed." "Delicate aroma." "Really cheaper to use."

Proved Products of 170 years' reputation.

FRY'S COCOAS & CHOCOLATES.

Price Lists, &c., on application.

TELEGRAPHIC ADDRESSES—
"FRY, BRISTOL." "FRYSON, LONDON."

250 GOLD MEDALS AND DIPLOMAS.

ESTABLISHED 1760.

DUNHILL'S LICORICE CAKES.

All Chemists should stock these, the oldest and best known.

Stocked by the Leading Wholesale Houses.

Free samples on application. Colonial and Foreign Agents wanted.

DUNHILL & CO.
PONTEFRACT.

EIGHT PRIZE MEDALS AWARDED.

GOODALL'S HOUSEHOLD SPECIALITIES.

YORKSHIRE RELISH.
Most Delicious Sauce in the World. Bottles, 6*d*., 1*s*., and 2*s*. each.

GOODALL'S BAKING POWDER.
The Best in the World. 1*d*. Packets; 6*d*., 1*s*., 2*s*., and 5*s*. Tins.

GOODALL'S EGG POWDER.
One 6d. Tin is equal to 25 Eggs. In 1*d*. Packets; 6*d*., 1*s*., and 5*s*. Tins.

GOODALL'S CUSTARD POWDER.
Delicious Custards without Eggs. In Boxes, 2*d*., 6*d*., and 1*s*. each.

GOODALL'S BLANCMANGE POWDER.
Delicious Blancmange in a few minutes. Boxes, 6*d*. and 1*s*. each.

GOODALL'S LAVENDER WATER.
A Rich and Lasting Perfume. Bottles, 1*s*., 2*s*., and 5*s*. each.

GOODALL'S PLATE POWDER.
For Polishing and Cleaning all Metals. Boxes, 6*d*. and 1*s*. each.

GOODALL'S JELLY SQUARES.
Make a Delicious and Nutritious Jelly. In ½-pint, 1-pint, and quart boxes, 3*d*., 6*d*., and 1*s*. each.

PROPRIETORS—GOODALL, BACKHOUSE & CO., LEEDS.

GOODALL, BACKHOUSE & CO., LEEDS,
ANALYTICAL AND MANUFACTURING CHEMISTS;
WHOLESALE & EXPORT DRUGGISTS;
RUG AND SPICE GRINDERS; DRYSALTERS' OIL AND COLOUR MEN;
PATENT AND PROPRIETARY MEDICINE DEALERS;
DRUGGISTS', GROCERS', AND ITALIAN WAREHOUSEMEN'S SUNDRIES;
TIN CANISTER AND CARDBOARD BOX MAKERS;
IMPORTERS OF OLIVE OILS, ESSENCE OF LEMON, &c.

For prices and terms of above see Monthly Price Current. Special net cash prices quoted for wholesale quantities. Arrangements made for packing goods with customer's name when quantities are required.

HAWKSLEY'S
PATENT
MILK STERILIZERS (4 kinds).

"Not the least of their many good points is the readiness with which people . . . learn to use these Sterilizers. The credit must be assigned to the simplicity of the apparatus."

SEND FOR ILLUSTRATED PAMPHLETS.

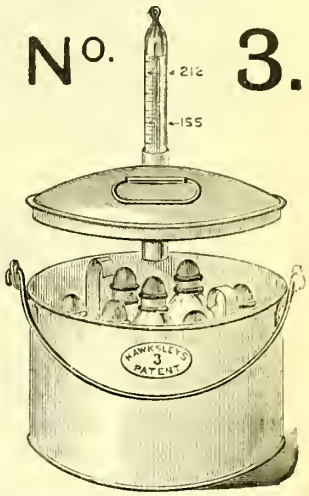
No. 1. Price, in Box with Extra Bottle, 1 pint, 10/6; 1½ pint, 12/6.

No. 2. Price, in Box of 2 bottle apparatus, with Spirit Stove and extra bottle, £1 5s.

No. 3. Price, in Box with Food Warmer and Brush 7 bottles, 15/-; 10 bottles, 21/-. With Trivet and Spirit Lamp, 3/- and 3/6 extra.

No. 3 is a modification of Dr. Budin's method of feeding Infants, suggested in the *British Medical Journal*, Dec. 7th, where each dose of food is in a separate bottle. One operation being sufficient for one day's consumption.

No. 4. Same arrangement as No. 3, but with larger (8-oz.) bottles for vigorous feeders. Price £1 1s.



See Winter Number, page 99.

May be had through any Wholesale House or direct from Sole Maker and Patentee—

HAWKSLEY, SURGICAL INSTRUMENT MAKER,
357 OXFORD ST., W.

GOLD MEDALS, 1887 & 1897. *Established 1863.* "CROWN BRAND."

JOHNSON & HOOPER, LTD.
MANUFACTURING CHEMISTS,
Crown Works, Stratford, London, E.

ACIDS GENERALLY.
ACETIC ACID SPECIAL.
Sulphites & Bisulphites of Lime, Soda, &c.
CHLORIDES OF CALCIUM, MAGNESIUM & ZINC.
FLOWERS, ROLL & ROCK SULPHUR.
TUSON'S DISINFECTANTS,
&c., &c.

Telegrams—"KINDERSLEY LONDON" (A B C Code).
Telephone 96 Stratford.

GERMOL
NEW AND POWERFUL DISINFECTING FLUID.
(NON-POISONOUS.)
More Powerful than Carbolic Acid, and does not stain or burn in use.

"MICROBMORT" FOR SURGICAL USE.
GERMOL SANITARY POWDER
GERMOL SHEEP DIP. GERMOL SOAPS.

Samples and Particulars on application to the Sole Manufacturers—

READ HOLLIDAY & SONS, LIMITED.
HUDDERSFIELD, ENGLAND, & NEW YORK, U.S.A



PRINCE ALBERT'S CACHOUX

HIGHEST AWARD COLUMBIAN EXPOSITION, CHICAGO, 1893.

These Cachoux are supplied only In Brass Boxes, of which there are three sizes.

No. 4's at 3/6 doz. (*Export*).
No. 5's at 4/- doz. (*Home Trade*)
No. 6's at 7/- doz.

SUBJECT TO TRADE DISCOUNTS.

All Labels, Titles, and Trade Marks registered in Europe and America.

"BENZINE RECT."

JACKSON'S.

SIXPENNY & SHILLING SIZES,
4s. and 8s. per dozen.

A Genuine Benzol.

JACKSON'S CEMENT
Chinese Diamond.
It has stood the test of time in all quarters of the globe.
In Bottles at 3/6 and 7/- per dozen.

ADHESIVE, TENACIOUS AND KEEPS WELL.

JACKSON'S LIQUID GLUE.

SIXPENNY and SHILLING Sizes, at 3/6 and 7/- per doz.
BRUSHES INCLUDED. (B)

SPECIALITIES FROM THE LABORATORY OF **THOMAS JACKSON, Strangeways, MANCHESTER.**

THOS. GUEST & CO.

Carruthers Street, MANCHESTER.

MAKERS OF MEDICATED LOZENGES AND JUJUBES.

B.P., T.H. Ph., and General Proprietary Lozenges. Decorated Tin Cartons of 2 and 4 lbs. Linseed, Licorice and Chlorodyne—a Speciality. Finest Gum Jujubes and Pastilles—Glycerine and Black Currant, &c. Granular and all Effervescing Preparations. Boiled Sugars, Floral Tablets.

SEND FOR LIST, SAMPLES, AND COMPARE.

TELEPHONE 235. TELEGRAMS "GUESTO."

"SOLAZZI" LIQUORICE JUICE

THE CHEMISTS' BRAND.

Sold by all Chemists and Druggists in United Kingdom and British Colonies.

THE TESTIMONY OF "THE LANCET."

"The above brand has long been known to be of standard purity. We found the specimen to be completely soluble in water and entirely free from impurities of any kind. It is, therefore, well adapted for the pharmaceutical purpose for which it is useful while as a popular demulcent it is both safe and reliable."

Recommended also by "*The British Medical Journal*," "*Health*," "*The Chemist and Druggist*," "*Food and Sanitation*."

ASK FOR SHOWCARDS AND HANDBILLS.

TO BE OBTAINED OF ALL WHOLESALE HOUSES.

DRUGGISTS' CONFECTIONERY.

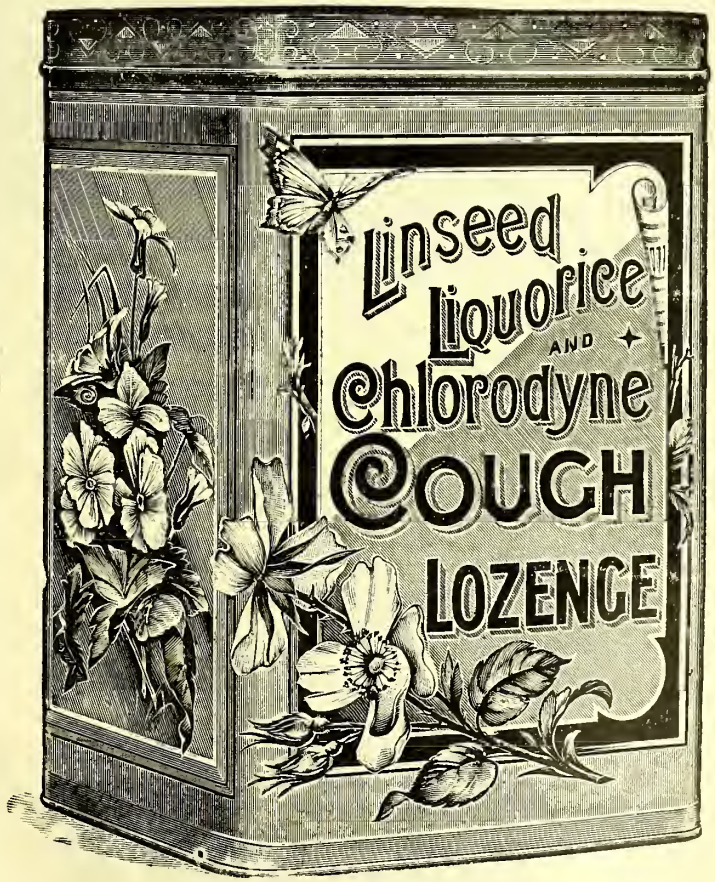
ROBERT GIBSON & SONS.

Medicated Lozenge Manufacturers,

CARLTON WORKS, ERSKINE STREET, HULME, MANCHESTER, ENGLAND, and

1 GLASSHOUSE YARD, ALDERSGATE STREET LONDON, E.C.,

Beg respectfully to call the attention of buyers to their new enamelled and beautifully decorated Tins for Linseed, Liquorice, and Chlorodyne Lozenges.



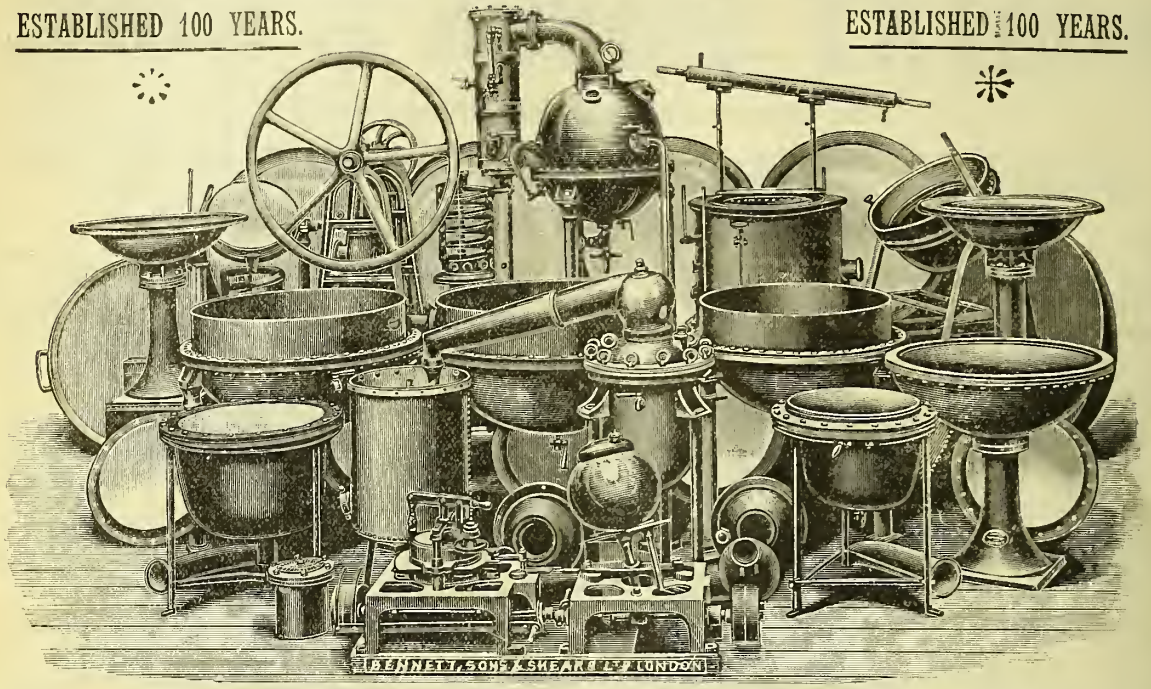
Each Tin holds 7 lbs., and is given with the Lozenges. Besides affording security for the Lozenges keeping in any climate, the Tins provide a handsome Show Case for the Counter, and will, no doubt, lead to an increasing demand. Every Wholesale House in or out of London can supply, or indents may be sent direct to Manchester.

PRICE LIST ON APPLICATION.

BENNETT, SONS & SHEARS, LTD.

ENGINEERS AND COPPERSMITHS.

ESTABLISHED 100 YEARS. ESTABLISHED 100 YEARS.



MANUFACTURERS OF ALL DESCRIPTIONS OF

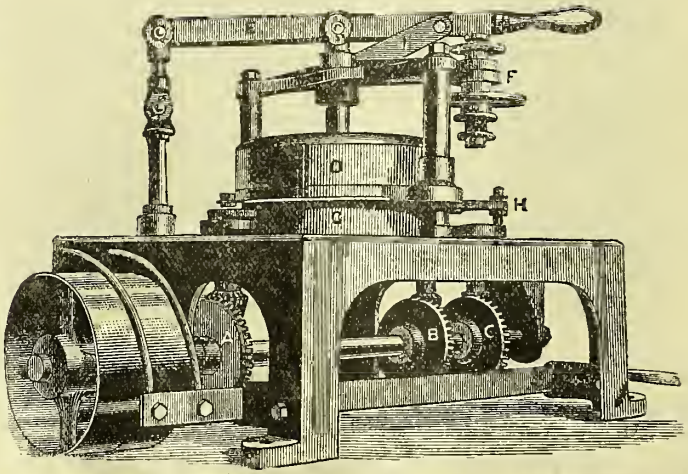
STEAM ENGINES	DRYING CLOSETS	STEAM DRYING TABLES	AQ. DESTIL. APPARATUS	SAL VOLATILE STILLS
STEAM BOILERS	HYDRAULIC PRESSES	VACUUM PANS	CLOVE OIL STILLS	SANDAL OIL STILLS
STEAM PUMPS	STIRRERS	VACUUM PUMPS	CARAWAY OIL STILLS	VACUUM STILLS
SHAFTING & GEARING	COPPER STEAM PANS	ACETIC ACID STILLS	LAVENDER STILLS	VACUUM FILTERS
MILLS (VARIOUS)	PEWTER STEAM PANS	ALCOHOL STILLS	MINT STILLS	PILL MACHINERY
EDGE RUNNERS	TILTING STEAM PANS	ALMOND OIL STILLS	NITRE STILLS	
DISINTEGRATORS	AUTO STILLS	AMMONIA STILLS	PORTABLE STILLS	

PATENT PILL-ROUNDING & FINISHING MACHINE.

THE ONLY PERFECT MACHINE FOR THIS OPERATION.

The Pill Plate takes ¼ lb. of Pills at once, and these are rounded in less than one minute.

The Machine covers a space of about 2 ft. 6 in. by 2 ft., and should be bolted on a firm wooden bench. Can be worked either by HAND or power.



Also Manufacturers of

IMPROVED PATENT "OSCILLATOR" PILL-COATING MACHINE.

For Perfect Uniformity of Coating this Machine is unequalled. In use by the principal makers at Home and Abroad. Capacity about 200 Gross. The smallest quantity can be coated equally as well as larger quantities.

MR. THOMAS BEECHAM HAS A NUMBER OF THESE MACHINES IN USE IN ENGLAND AND AMERICA.

Every Requisite for the Pill Room.

167 KINGSLAND ROAD, LONDON.

TELEGRAMS—"COPPERSMITHS LONDON."

TANGLEFOOT

SEALED, STICKY **FLY PAPER.** NON-POISONOUS

Every Sheet Hermetically Sealed.

PRICES—1 Cardboard Box (containing 25 Double Sheets) 1/8
1 Case (containing 10 Boxes) 15/-
5 per cent. Reduction on 5 case orders.

EXPORT—10 Cases are securely packed in a strong crate for Export.

SPECIAL to the WHOLESALE.— All enterprising druggists sell TANGLEFOOT, we recommend you to advertise it in your lists.

Sole Importers—*ALABASTINE CO.* (British) *LIM.*
CHURCH ST., SOUTH LAMBETH, LONDON, S.W.



A Case of Tanglefoot, 15/-.

N B.—Chemists who supply Painters should send to us for Alabastine Price Lists and Tint Cards, descriptive of the merits and permanence of this world-renowned decorative material.



A Box of Tanglefoot, 1/8.

"The Chemist and Druggist"

COLONIAL ISSUE.

The issue for APRIL 29, 1899, will circulate specially among all Buyers of Chemicals, Galenicals, and Druggists' Goods generally in—

INDIA, BURMAH, the STRAITS SETTLEMENTS, SOUTH AFRICA, CHINA, JAPAN, and the WEST INDIES.

THE OPEN DOOR.

Politicians and commercial men are at the moment agreed that for the conservation of British trade interests in the East "The Open Door" is indispensable. In this connection it is important for firms having business relations in the East to note that one of the strong features of THE CHEMIST AND DRUGGIST is that for more than a generation it has kept the door open for the Drug Trade. European houses, as well as native firms in India, Burmah, Ceylon, Straits Settlements, China, and Japan, look upon it as the medium of the British Chemical and Drug Trade. In Australasia THE CHEMIST AND DRUGGIST is as popular as it is at home, and the same applies to South Africa and the West Indies.

We propose to distribute our issue for April 29, 1899, to **all firms** in the places mentioned above, subscribers and non-subscribers, and we think this will be **an excellent opportunity for business houses to insert advertisements specially relating to Colonial trade.**

Advertisers should bear in mind that on this occasion they will not only get this special Colonial and Foreign Circulation, but also the exceptional regular Home and Foreign Circulation to Subscribers to THE CHEMIST AND DRUGGIST, *without extra cost.*

ALL COMMUNICATIONS RESPECTING THIS ISSUE SHOULD BE ADDRESSED—

The Publisher of THE CHEMIST & DRUGGIST, 42 Cannon St., London, E.C.

BRANCH OFFICES: MELBOURNE AND SYDNEY.

FATAL.



Inoffensive. Cleanly.

Early man used to be able to wag his ears as an indication of pleasure or to brush away flies from under his back hair, but as the muscles were not brought into continual use they became rudimentary.

BUT THEY DID NOT KNOW OF

FLYODOOMO

IN THOSE DAYS : : :

NEATLY ROLLED AND BANDED FOR HANDLING.



STOCKED BY ALL WHOLESALE HOUSES.

WRITE FOR QUOTATIONS.

SEND SAMPLE GROSS ORDER WITH 5s. P.O.

"FLYODOOMO."

JNO. H. SMITH & CO., NEWARK-ON-TRENT.

Christy Strong,

READING, ENG.

MANUFACTURER OF THE WELL-KNOWN

Patent Hermetically Sealed

STICKY FLY PAPERS

The "COBWEB" and the "GRIP."

The Most Saleable Fly Papers on the Market.

"Clean as the Leaves of a Book."

MILLIONS SOLD ANNUALLY.

TO PREVENT DISAPPOINTMENT ORDER EARLY.



THE "FLY CEMETERY"

TITLE AND TRADE MARK REGISTERED.

NON-POISONOUS!

The Original and by far the BEST Sticky Fly Paper in the market.

ANNUAL SALE MILLIONS.

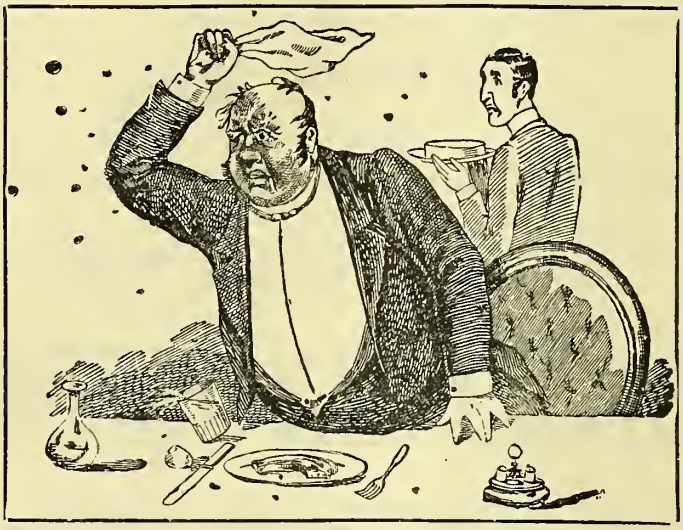
END OF SEASON.

This Gentleman would NOT stock the "Fly Cemetery."

RESULT:

DISAPPOINTMENT

Catches more Flies in a day than the old-fashioned Papers do in a week.



PRICE ONE PENNY.

Well known in every Household in the Kingdom.

Bears Large Profits.

The immense popularity of the **"FLY CEMETERY"** with the public has had the usual result attending the introduction and prosperity of all genuine articles in raising up a host of *imitations*, which for the most part disappoint the purchaser. We therefore warn our friends not to be misled by specious announcements, but when they order Sticky Fly Papers to insist upon having the **"FLY CEMETERY."**

SOLD BY ALL THE LEADING WHOLESALE HOUSES.
LIBERAL TERMS.

IMPORTANT NOTICE.

In order that our Customers may not suffer any loss through deterioration of Stock kept during the Winter, we are willing to Exchange any thus left over for Fresh Stock at the commencement of a new Season. We only ask our friends to assist us by ordering judiciously, especially towards the latter part of the Season.



END OF SEASON.

This Gentleman DID stock the "Fly Cemetery."

RESULT: GOOD BUSINESS.

SAMPLES AND TESTIMONIALS FROM

TUNBRIDGE & WRIGHT, MANUFACTURERS, READING

North of England Depot: 4 GALLOWGATE, NEWCASTLE-ON-TYNE. Telegrams: "FLIES READING."

THE INSECT KILLER

that can be relied on

TO EXTERMINATE
TO SELL
TO INCREASE PROFITS

A UNIQUE COMPOSITION WITH MOST MARVELLOUS EFFECT UPON INSECT LIFE.



THE TRADE WOULD DO WELL TO ORDER AT ONCE.

"VIKO" for Cockroaches.
"VIKO" for Moths.
"VIKO" for Fleas.
"VIKO" for Bugs.
"VIKO" for Mosquitoes.
"VIKO" for Ants.
"VIKO" for every species of Insect.

. . VIKO . .

As a Preventive against Moth is Unrivalled. "It really has no equal." If sprinkled amongst Furs and Clothes it instantly destroys any existing insect life and ensures perfect freedom from a return of the pest.

PERFECTLY HARMLESS TO ANIMALS.

TUNBRIDGE & WRIGHT, Manufacturers, READING, ENGLAND.



DR. MACKENZIE'S

Catarrh Cure

SMELLING BOTTLE.

Dealers in Patent Medicines should always Stock

"MACKENZIE'S CURE."

It is well got up, sells at sight, bears a large profit, and wherever introduced has a rapid sale, giving satisfaction to both buyer and seller.

Sent out in Fancy Cardboard Boxes containing half a dozen bottles.

PRICE ONE SHILLING.

May be obtained from all Wholesale Patent Medicine Warehouses.

SHOWCARDS AND HANDBILLS FROM

MACKENZIE'S CURE DEPOT, READING, ENGLAND.



HEADACHE.

THE PREMIER CURE IS DAISY.

Shippers should send out samples of the famous English cure for Headache. Established about four years ago, its advent marked an epoch, for the first year we sold 500,000 Daisies, the second year we sold 2,500,000 Daisies, the third year 6,000,000, and sales have since reached 12,000,000 Daisies in twelve months. A truly marvellous record, and unparalleled, we believe, in the history of any other in its line. Both Shippers and Chemists know that this permanent and ever-flowing success results from real sheer merit. Daisy satisfies the customer, for it cures, and ***that*** in a few minutes. It satisfies the agent, for it pays ***cent. per cent. profit*** on the bulk of the sales.

It sells quickly, for it is smartly got up, possesses a taking name, is freely advertised, and a Free Sample supply of Novelties accompanies each parcel. Read next page.

DAISY, Limited, THE TWIN DAISY WORKS, **LEEDS.**

Telephone 1990. Wires—"Daisy Leeds."

American Branch—DAISY, LIMITED, 166 DUANE STREET, NEW YORK.

Telegrams—"Daisy New York."

Australian Agencies—THE AUSTRALIAN DRUG CO., SYDNEY; LANGLEY & CO., COLLINS ST., MELBOURNE.

Copyright.]

TWO SHILLINGS AND SIX PENCE FREE FOR EVERY SHIPPER.

A sample half-dozen of "Daisy" (10 "Daisies" in each box) will be sent post free to any bonâ-fide shipper upon receipt of printed card or memo form. "Daisy" only requires mentioning to good Colonial firms to be sold, and a sample will amply repay the slight trouble of forwarding. **Write "just now."**

What the Chemists think of "Daisy."

In a recent competition organised by the leading paper of the Trade—THE CHEMIST AND DRUGGIST—the question was asked: "Which is the most popular Proprietary Article?" The competition was a favourite one, well replied to, and very successful. The results were as follows:—

"DAISY"	**233**
Beecham's Pills	**69**
Kepler's Malt	**25**
Lanoline	**22**
Scott's Pills	**15**
Browne's Chlorodyne	**13**
Vinolia	**13**

And 50 other articles with less votes.

"DAISY" is the most popular Cure for Headache in the British Isles. It gives the customer satisfaction, the Chemist handsome profits, and every inducement is given to push. Write us for particulars of moving figures, or a unique display to draw crowds to the window.

DAISY, Limited, Twin Daisy Works, **LEEDS.**

OVER 50 REGISTRATIONS IN ALL PARTS OF THE WORLD.

ANALYTICAL REPORT ON

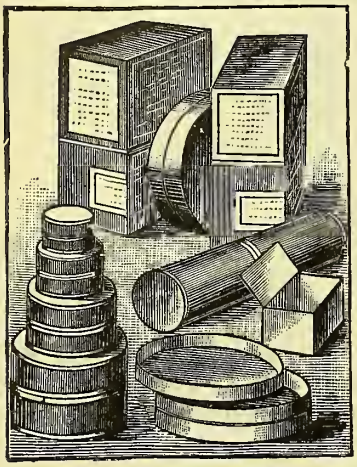
STERN'S PARAFFINUM LIQUIDUM, B.P., 1898.

"The sample was odourless, colourless, tasteless, and non-fluorescent. It was free from sulphur compounds, and answered the stringent requirements of the New British Pharmacopœia. The specific gravity at 60° F. was 0·8832. For all practical purposes I am of opinion that this is sufficiently near to the B.P. limit of 0·885, especially as it has been shown that a higher gravity gives a less pure product.

"It is admirably adapted for the numerous uses, both internal and external, for which Liquid Paraffin has been successfully employed.

(Signed) "E. J. MILLARD, F.C.S., F.R.M.S.
"33 Lothair Road, Finsbury Park, N."

Sole Makers:
Messrs. STERN BROTHERS,
57 Gracechurch Street, E.C. [1]



AUSTIN & CO.

Patentees and Manufacturers of **FANCY CARD**

ROUND, OVAL, & SQUARE SHAPED BOXES

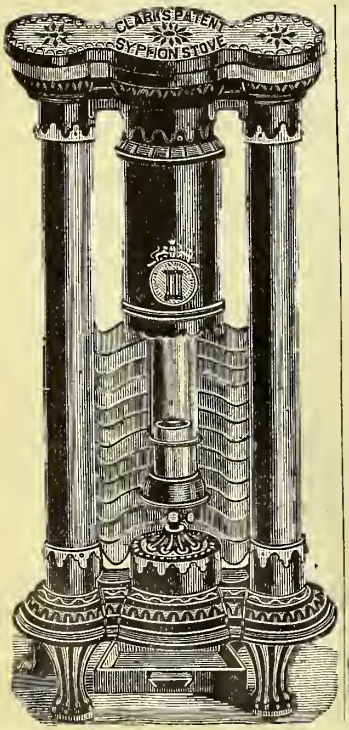
FOR POSTAL AND GENERAL PURPOSES.

ALSO PATENT BARREL PACKAGES, WITH METAL ENDS, FOR DRY GOODS,
AND
Makers of best class of Violet Powder Boxes, and high-class goods of every description for Perfumery, &c.

8 GREVILLE STREET, HATTON GARDEN, LONDON, E.C.

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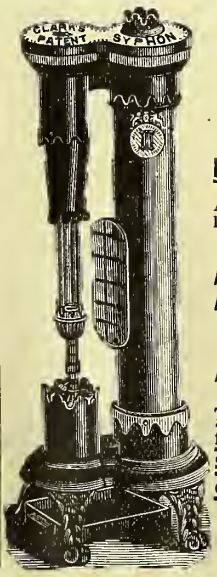
TO CHEMISTS AND DRUGGISTS.



AGENTS WANTED FOR THE SALE OF
"THE SYPHON" (Registered Title)

HYGIENIC CONDENSING GAS HEATING-STOVES

(CLARK'S PATENT.)



A Necessary for all Invalids.
A Comfort to Everybody.

NO FLUE REQUIRED.

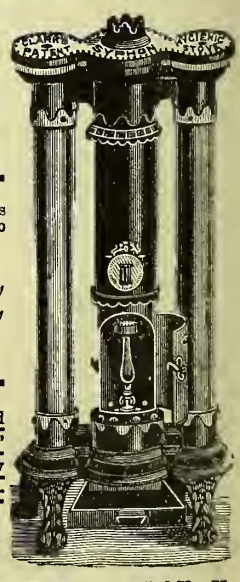
FREE FROM SMELL OR SMOKE.

All injurious vapours are reduced to harmless liquid inside the Stove, and passed out at foot into a tray provided for that purpose.

For use in Hospitals, Sick Chambers, Bedrooms, Halls, Conservatories, Schools, Shops, &c.

A LIBERAL DISCOUNT ALLOWED.

The "Syphon" Stove is admirably adapted for heating Chemists' and Druggists' Shops and Stores. The heat is evenly diffused, and can be graduated or sustained at pleasure.



For Terms, Particulars, and Prices, apply to

S. CLARK & CO., Patentees & Makers, **SYPHON WORKS, PARK ST., ISLINGTON, LONDON, N.**

Telegraphic Address—"SYPHON STOVES LONDON." Wholesale Agents—Messrs. MAW, SON & THOMPSON, Aldersgate Street, London.

THE MODERN STOVE POLISH.



A PHENOMENAL SUCCESS.

Retail, per Tin ...	1*d.*	2½*d.*	5*d.*
Per Gross... ...	9/–	20/–	37/6

NEWTH'S BRITISH FURNITURE POLISH.

Manufactured by Newth & Co. since 1838. Purchased by us in 1886. Manufactured at our works from the Original Recipe.



Superior to all other preparations for the purpose. Size considerably enlarged, and now put up in three sizes.

There is absolutely nothing to come near it in the results it gives.

Retail	3*d.*	6*d.*	1/–
Per dozen ...	1/9	3/3	6/6

"CAMPHOREL."



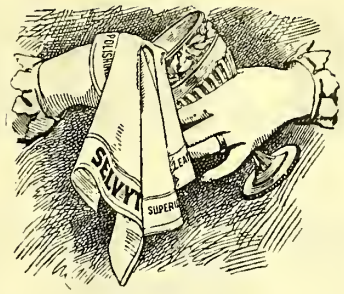
A powerful Disinfectant and Deodoriser.
Invaluable in cases of Cholera, Typhoid, and other Infectious Diseases.
Giving off a beautiful and invigorating perfume.
No unpleasant smell, as other Disinfectants. (Non-poisonous.)

CERTAIN DEATH TO MOTHS.

In Blocks ...	4 oz.	2 oz.	1 oz.	½ oz.
To Retail...	6*d.*	4*d.*	2*d.*	1*d.*
Per gross...	42/–	24/–	13/8	7/–

In Powder in Tins ...	6*d.*	1/–
Per dozen	6/–	12/–

"SELVYT."



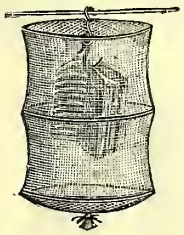
Nos. ..	A	B	C	D
Inches	10½×10½	14×14	17½×14	21×17½
Per doz.	2/3	3/9	4/11	6/11

Nos.	E	E1	F
Inches	21×20	21×25	28×28
Per doz.	8/9	12/–	15/9

Nos.	BB	CC	DD
Inches	14×14	17½×14	21×17½
Duplex "Selvyts"	6/2	8/–	11/–

Nos.	EE	EE1	FF
Inches	21×20	21×25	28×28
Duplex "Selvyts"	12/10	15/–	22/4

"FLY-CHEAT" MEAT CAGES.



Nos.	1	2	3
Per dozen	5/–	7/–	9/6

Any Size Made to Order.
Special Prices for Quantities.
If with additional Suspending Wire Frame to hold a plate, 1/6 per dozen extra.

Gordon & Dilworth's

TOMATO CATSUP.



SMALL SIZE,
in Cases of 4 dozen.
4/9 per dozen net.

LARGE SIZE,
in Cases of 2 dozen,
9/– per dozen net.

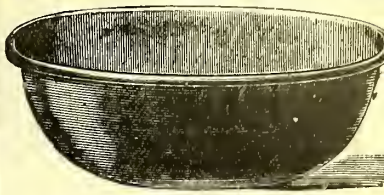
DECANTERS,
in Cases of 2 dozen,
10/– per dozen net.

A High-class Table Sauce.

Extensively Advertised to the Public.

Specially packed for Export. Cases free.

OVAL "UNBREAKABLE" TUBS

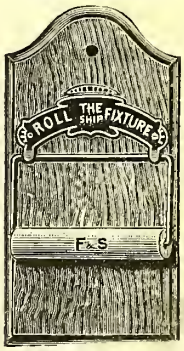


Light, Strong, Durable.
No hoops to drop or rust off
Measurement 16 inches.
Enamelled white inside, marble outside
No House or Nursery complete without them.

Per dozen 21/–

TOILET FIXTURES

THE "SHIP."



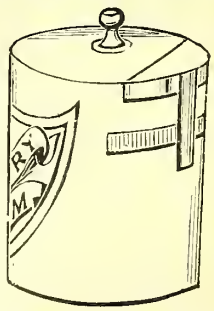
Mounted on Oak Panels, varnished, complete, as shown, per dozen, 5/–

TOILET ROLLS, PERFORATED.

Nos.	Per doz.	Case of 10
6. Special White ...	2/6	18/–
4. ,, M.G. ...	2/9	21/–
5. Plain White ...	3/–	22/6
3. Super Glazed ...	3/6	27/–
2 Superior	4/–	30/–
1. Thin Manila ...	6/–	46/–

MOCKLER'S MOVABLE COVERS.

Dust and Fly Proof.



A Good Line for Chemists.

To fit Teacups, Tumblers, and Jugs
For glass and stone Jam Pots and Preserve Jars.

Nos.	1	2	3	4
Inches	2½	3¼	4	4½

Plain White Metal, without Knob.

Per doz.	3/6	4/–	4/9	5/9

Plated on White Metal, with Knob.

Per doz.	5/9	6/4	7/3	8/6

Super Quality, Silvered Knob

Per doz.	8/–	8/8	9/6	10/6

W. B. FORDHAM & SONS, LTD., 36 to 40 YORK ROAD, KING'S CROSS, LONDON, N.

EDWARD COOK & CO LTD.

THE SOAP SPECIALISTS

LONDON.

MAKERS OF EVERY DESCRIPTION OF

HOUSEHOLD, TOILET, & SOFT SOAPS.

Specialities Made for the Trade.

SEND FOR HANDSOME PRICE LIST OF SPECIALITIES.

SPLENDID QUALITY. GOOD PROFITS.



Diploma of Honour, Madrid, 1890.



Capetown, 1878.



Amsterdam, 1883.



International Health, 1884.



Brussels, 1889.



Madrid, 1890.



Tunis, 1891.



Diploma of Honour Brussels, 1890.

JAMES SINCLAIR & SON,

SOUTHWARK, LONDON.

Our output for Fine Toilet Soaps increases rapidly, owing to quality supplied. The utmost care is taken in the preparation of Medicated Soaps, which are prepared from Special Formulæ for Hospitals and Infirmaries.

We pay great attention to Special Brands of Soap, and place our long experience at the disposal of Chemists requiring a fine Soap with name.

FINE TOILET SOAPS,

In Boxes of 3 Tablets.

ALCAZAR BOUQUET - - 12/- Doz. Boxes.

VELOURS or VELVET SOAP - 9/- " "

WHITE ROSE & CUCUMBER (very fine) 6/- " "

And the following sorts:

Almond.	Honey.	Boxes of 3 Tablets, 6/- per Dozen.
Elder.	Marshmallow & Glycerine	
Glycerine.	Cold Cream.	
Glycerine & Cucumber.	Cold Cream and Honey.	
Heliotrope.	Rose of England.	Boxes of 12 Tablets, 22/- per Dozen.
Royal Palace.	Violet.	
Opoponax.	Windsor.	

LAVENDER, OATMEAL, &c., &c.

EMPRESS TOILET SOAP

(Superfatted and Milled). Oval Tablets, per Gross, 18/-, assorted colours.

SOAPS SPECIALLY MADE FOR THE INDIAN AND EASTERN TRADE,

Also for SOUTH AFRICA and SOUTH AMERICA.

TRANSPARENT SOAPS IN VARIOUS COLOURS.

All kinds of TOILET SOAP to order.

LAVATORY LUXURIES



THE ORIGINAL
SUPERFATTED & FAMOUS
COLD CREAM SOAP
"Otto"
"Medicated"
"Toilet"

Choice Soaps.

COLD CREAM SHAVING SOAP.

Messrs. Gibbs have herein succeeded in giving their customers a shaving soap far ahead of anything yet produced.

FLORAL CAMEO TABLET.

The best and cheapest line in the market.

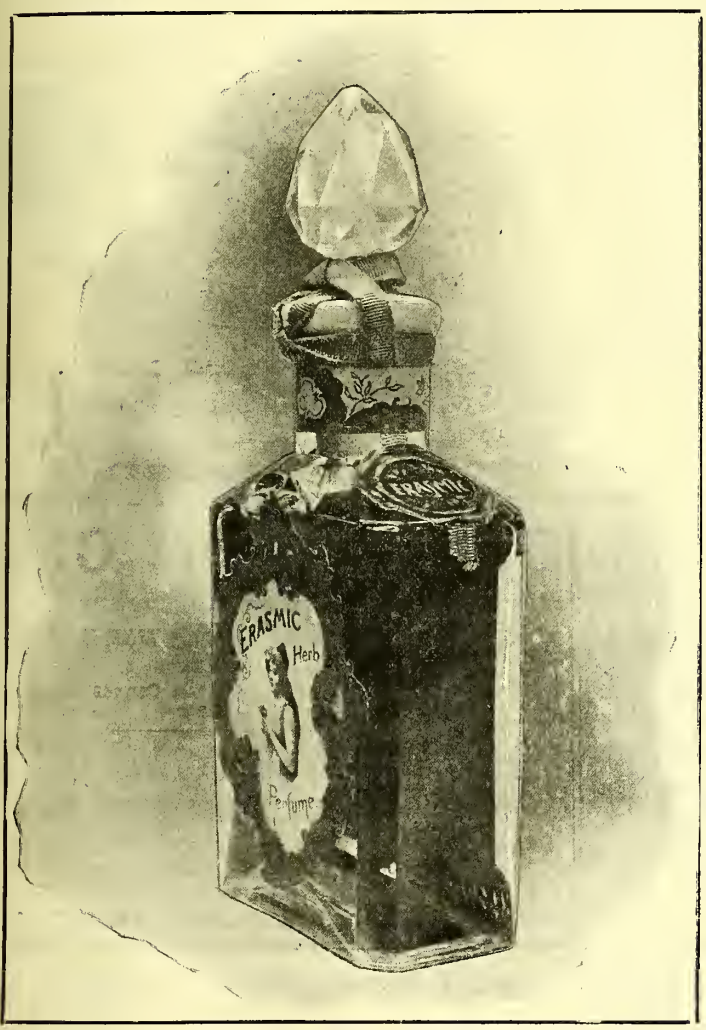
Retail Price 1/- per box.

D. & W. GIBBS

(LIMITED),

CITY SOAP WORKS, LONDON.

Free Distribution
OF
Erasmic Perfume.



The Proprietors of the well-known

ERASMIC SOAPS

are announcing to the public that they are prepared to give in exchange for **Peerless Erasmic Soap Wrappers,** Free Samples of **Erasmic Perfume,** according to the following scale :—

FOR 3 WRAPPERS 1 BIJOU SAMPLE BOTTLE, VALUE 3D.

FOR 24 WRAPPERS 1 FULL-SIZED BOTTLE, VALUE 1/6.

Arrangements have been made to give the trade a profit on the samples they may distribute to the public, the company selling these at the following prices :—

BIJOUS, 25/- less 15 per cent.



1-oz. BOTTLES, 13/6 less 5 per cent.,

and refunding the trade at the rate of 25*s.* net per gross for Bijou Bottles given away, and 18*s.* per dozen net (full retail price) for the 1-oz. Bottles given away.

All claims for refund must be made ON FORMS SUPPLIED for the purpose, and be accompanied by the wrappers taken from the public in exchange for free samples.

"AMIRAL" SOAP

FOR

REDUCING CORPULENCY

BY EXTERNAL LOCAL APPLICATION.

No Dieting. No Drugs. No Danger. No Discomfort. Recommended and Prescribed by the Medical Profession.

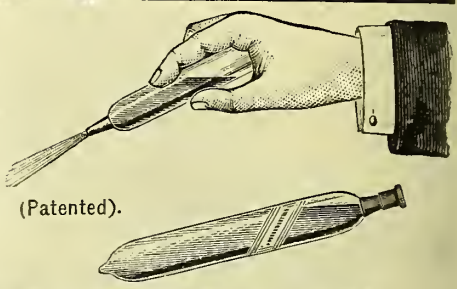
Retail Price, 8/- per Box of 2 Cakes.

SHOWCARDS, PAMPHLETS, AND COPIES OF TESTIMONIALS SUPPLIED ON DEMAND.

Sole Proprietors—**THE FIGURE IMPROVING SOAP COMPANY, LIMITED,**
3 Throgmorton Avenue, LONDON, E.C.

NEW LINES FOR CHEMISTS.

LANCE PERFUMES



(Patented).

See references in the Winter Number of The Chemist and Druggist, January 28th, to the Editorial Notices in

THE QUEEN, ILLUSTRATED LONDON NEWS, BLACK AND WHITE, THE GENTLEWOMAN, THE LADIES' PICTORIAL, THE WORLD, TRUTH, etc.

And also Terms for Competition by Chemists.

£20 First Prize, £10 Second Prize, £5 Third Prize.

Will be Supplied through Wholesale Firms ONLY to Chemists. For information apply to

SOLE AGENTS for United Kingdom and Colonies (except Canada):

R. W. Greeff & Co., 20 Eastcheap, London, E.C.

OLEA ÆTHEREA SINE TERPENO

HAENSEL'S SPECIALITY SINCE 1876.

Wm POPPELREUTER, MANCHESTER
TERPENELESS, CONCENTRATED
non-clouding ESSENTIAL OILS.
HEINRICH HAENSEL'S
Unequalled Speciality.

LEMON, ORANGE (30 times concentrated), LIMES, Bergamot, Lavender, Bay, Verbena (Citral), Rosemary, Geranium, &c.

London Depot: 19 ST. DUNSTAN'S HILL, E.C.

OKELL'S ORIGINAL MONA BOUQUET

(First introduced by the late JOSEPH OKELL).

Registered Trade Mark, "DOUGLAS PIER."

The most popular and best-selling perfume in the market.

Retail Prices, 1/-, 1/9, 3/6, 6/-, 7/6, 10/6 per Bottle.

ALSO 3d. SAMPLE BOTTLES.

Shippers and Wholesale Buyers supplied on the best terms by

THOMAS WEST, 1185 & 1187 CHESTER ROAD, STRETFORD, MANCHESTER.

SPURWAY & CIE.

Perfume Manufacturers,

CANNES-GRASSE, FRANCE.

ESTABLISHED 1820.

GOLD MEDALS—Philadelphia, 1876; Cannes-Grasse, 1893; Nice, 1884.

FRENCH ESSENTIAL OILS,

PURE OLIVE OILS, POMADES, &c.

SPECIALITY — Finest Quadruple Extracts of inimitable and lasting Fragrance.

London Branch—**184 SHAFTESBURY AVENUE, W.C.**

Makes the Skin Soft and Delicate.

HYDROXENE SOAP

Invaluable for the Nursery and Toilet.

HYDROXENE Co., Old Stratford, STONY STRATFORD.

"OVALINE" SOAP

The Only Soap prepared with

YOLK OF EGG.

A Profit of *33* per cent.

UNDER THE P.A.T.A.

WHOLESALE PRICES. Box of 3 Tablets.	*ADVERTISED PRICES.* Per Tablet.	Box of 3 Tablets.
8/- per Dozen Boxes.	4d. ...	1/-
12/- „ „	6d. ...	1/6
16/- „ „	8d. ...	2/-

PEACOCK'S OVALINE SOAP CO.

LIMITED,

203 HIGH HOLBORN, LONDON, W.C.



FACSIMILE OF SHOWCARD.

Carriage Paid on orders of £1 and upwards.

MAYPOLE SOAP

DYES ANY COLOUR.

The Quickest Seller! The Fastest Dye!

Maypole Soap Dyes any Colour.

The Largest Sale!
The Most Advertised!

Kindly send for Show-cards, &c., when required, to the **MAYPOLE COMPANY, LTD., 98 & 99 HIGH HOLBORN, W.C.**

"No. 54 ALTERMARKT"

(ORIGINAL HAUS)

EAU DE COLOGNE

SUPERIOR TO ANY OTHER BRAND.

Of all Wholesale Houses, and the Sole Agents for United Kingdom and the Colonies—

VAN OPPEN & CO.

HACKNEY, LONDON, N.E.

BRECKNELL'S SOAP.

PRIZE MEDAL.

Recommended by Eminent Medical Men.

SKIN

Unscented, yet Sweet as a Rose.

Although low in price, it ranks with high-class soaps, and is altogether the best extant for producing a Clear and Healthy Skin.

The longer it is kept the more it improves and increases in value

LIBERAL TERMS TO THE TRADE.

BRECKNELL TURNER & SONS, LIMITED.

To Her Majesty, &c., &c.,

31 HAYMARKET, LONDON.

ESTABLISHED

TRADE MARK

CORBYN, STACEY & CO., LTD.

Wholesale and Export Druggists, Analytical Chemists.

MANUFACTURERS OF ALL PHARMACEUTICAL PREPARATIONS.

TRADE MARK

Offices: 22 GREAT ST. HELENS, E.C. Laboratories and Drug Warehouses: 300 HIGH HOLBORN, 61 and 62 EAGLE STREET, and 7 and 8 FISHER STREET, LONDON, W.C.

DRUG AND ILLUSTRATED PERFUME LIST ON APPLICATION.

CORBYN'S Natural Perfumes

Are specially manufactured by C., S. & Co., Ltd., by the most recent and approved process from the finest raw products imported direct from the South of France, and are superior for richness and delicacy of odour to any yet introduced into this country.



In Bulk or in highly Attractive Cases.

Also in Special Quarter-pound Bottles, containing five fluid ounces of TRIPLE EXTRACTS, and labelled with Fancy Coloured French-style label, and sealed with Gold Monogram.

POT POURRI.

Fancy Gold Caskets, in Fancy Leatherette Cases, filled with Pot Pourri. Good selling line.

GRECIAN BOUQUET.

This favourite and lasting Perume is especially recommended as commanding a ready sale.

EAU DE COLOGNE, LAVENDER WATER, TOILET WATERS, SPRAYS, ETC.

DR. MACKENZIE'S ARSENICAL SOAP.

6d. size, 45/- per gross; 1/- tablets, 90/- net cash.

Dr. Mackenzie's Improved Harmless Complexion Wafers.

2/9 size, 21/- per dozen; 4/6 size, 36/- per dozen.

Dr. Mackenzie's Face Lotion.

3/6 size, 30/- per dozen bottles; 5/- size, 40/- per dozen.

"Zenaline" for the Hair.

3/6 size, 27/- per dozen; 5/- size, 36/- per dozen.

"Bloom of Clematis" Face Powder.

"Depilatory" & Dr. Mackenzie's Reducing Pills.

SPECIAL NOTICE.

With the New Year Dr. Mackenzie's Toilet Specialities are being put up in most artistic boxes, which make them very effective for window exhibition.

S. HARVEY, LIMITED, 5 DENMAN STREET, LONDON BRIDGE, S.E.

"TRIED LINES."

The following are really tried Lines, and have sold well wherever introduced:

CARBOLIC TOOTH POWDER AND BRUSH ... ... Retail 4½d.

CARBOLIC TOOTH POWDER and BOX of 3 TABLETS MILLED SOAP „ 4½d.

CARBOLIC TOOTH POWDER (4-oz. size) and BOX of SOAP ... ... „ 6½d.

1/- SHAVING STICK. A Good Razor with each FREE. SALES 200 DOZ. PER WEEK ... ... Retail 1/-



1/- SHAVING STICK and SUPERIOR SHAVING BRUSH ... ... „ 1/-

ROSE BLOOM SOAP (Box of 3 Tablets). FREE with each Box we give a Bottle of Grant et Cie.'s PARMA VIOLET or LILY PERFUME ... ... Retail 1/-

BUTTER MILK SOAP BALL. Grant et Cie.'s Original Star and Crescent Brand ... ... „ 4½d.

An Ideal Soap, introduced by us about three years ago. It has met with unprecedented success. The sales have eclipsed all and every Soap on the market. It has sold on its merits.



"STILL RUNNING."

GRANT ET CIE.'S

VIOLETTE DE PARME

The most popular Perfume ever introduced. Always good alike. One can always recommend it. As great a favourite as ever. Remember, we originated Floral Window Displays. At the present moment we have displays in Africa, Australia, New Zealand, China, Germany, India, Egypt, &c., &c., while there are hundreds of them in Great Britain.

GRANT ET CIE.'S New Line is in

JAPANESE PERFUMES. Japanese Violets, Carnation, and Lily. They are put up in beautiful bottles (stoppered), and suitable for the very highest-class trade. As we write this advertisement only a few buyers have seen these new lines, but one and all consider them one of the "Tit Bits" of the Perfumery trade, and say they're bound to sell.

DISPLAYS (FLORAL & NOVEL). With Violette de Parme we supply, on loan, Violets and Moss; with Lily of the Valley, Moss, Lilies, &c.; Violette Russe, Violets, Moss, Leaves, &c. The Japanese Perfumes have, in addition to the Flowers, Screen, Peacock's Feather, Fans, &c., &c.; in fact, a regular Japanese Show.

AS IS WELL KNOWN, WE HAVE MADE A SPECIALITY OF DISPLAYS, AND INVITE CORRESPONDENCE.

We shall be pleased to send Samples of any of the above, and at the same time give any other information that is required.

F. SCHUTZE & CO.

89 SOUTHWARK ST., LONDON, S.E.

Australian Agents:—Messrs. J. BARRE JOHNSTON & CO., 20 Loftus St., SYDNEY, N.S.W.

"LAIT Larola" Regd

A Delightful SKIN TONIC as well as an EMOLLIENT.

COOLING and REFRESHING.

BEST WHOLESALE TERMS direct to the RETAIL TRADE.

BEETHAM'S	Retail. s.	d.	Per Doz. s.	d.
LAIT LAROLA		6	5	0
" "	1	0	10	0
" "	1	9	18	0
" "	2	6	25	0
" LAROLA TOILET POWDER	1	0	10	0
" " "	2	6	25	0
" LAROLA ROSE BLOOM	1	0	10	0
" " "	1	6	15	0
" " "	2	6	25	0
" LAROLA TOILET SOAP (3 Cakes in Box)	1	6	15	0
" LAROLA DENTIFRICE	1	0	10	0
" "	2	6	25	0

For £2 Lots, 20 per cent. discount CASH, on receipt of Invoice.

Carriage Not Paid.

BEETHAM'S NEW TOILET MILK IS AN IMPROVED PREPARATION — of their Celebrated — GLYCERINE AND CUCUMBER.

IT HAS NO EQUAL FOR KEEPING

THE SKIN SOFT, SMOOTH AND WHITE, AT ALL SEASONS, AND REMOVES AND PREVENTS ALL ROUGHNESS, REDNESS, TAN, CHAPS, IRRITATION, ETC.

N.B.—BEETHAM'S GLYCERINE and CUCUMBER is still supplied as usual.

M. BEETHAM & SONS, Chemists, CHELTENHAM.



JEWSBURY & BROWN'S Oriental Tooth Paste.

Established over 70 years. Warranted to retain its properties and keep good in any climate. The original and only genuine is manufactured solely by

JEWSBURY & BROWN, ARDWICK GREEN, MANCHESTER.

Particular attention should be paid to the Trade Mark, printed in red and green, facsimile of which is annexed, as numerous imitations are offered.

MAY BE OBTAINED FROM THE WHOLESALE HOUSES.

Bills and Showcards forwarded on receipt of Address Cards and directions for enclosure.

"OLLAPEARL,"

THE DENTIFRICE OF THE AGE.

ABSOLUTELY NOVEL AND INGENIOUS.

Perfumed and Carbolic, 6d. and 1s. BONUS WITH FIRST ORDER. Write for full particulars to

THE OLLAPEARL CO., 371 OXFORD ST., LONDON, W.

ROYAL COURT HAIR DYES

(SINGLE SOLUTION.)

BEST ON EARTH.

Enquiries from Shippers, Exporters, and Importers especially requested.

STRIKING LITERATURE AND SHOWCARDS.

MARION & CO.,

13 BURY ST., CHELSEA, S.W., ENGLAND.

60 YEARS' SUCCESS

HOPGOOD'S

NUTRITIVE & SEDATIVE

HAIR CREAM

The only preparation for the HAIR and SCALP recommended by the MEDICAL FACULTY.

Medical Testimonials.

"I feel much pleasure in being able to recommend (with confidence) your NUTRITIVE CREAM in all cases of irritation of the Scalp, and accumulation of dandruff or pityriasis, in each of which I have freely used it and with unfailing success."

"JOHN A. WALCOTT, M.D."

"Mr. HOPGOOD has conceived that dandruff and loss of hair are frequently the result of irritation of the skin. He has succeeded in manufacturing a 'CREAM,' which is most successful in removing this condition, and I have much pleasure in bearing my testimony to its beneficial results. I have witnessed its effects in removing dandruff and irritation, and in restoring the hair, to an extent truly surprising."

"THOMAS BELL SALTER, M.D."



Medical Testimonials.

"I have very great pleasure in bearing testimony to the value of your NUTRITIVE AND SEDATIVE HAIR CREAM in cases of irritation and other secretions of the skin of the head, having witnessed, when practising in Ryde, its beneficial effect on many occasions."

"E. H. MARRIOTT, M.R.C.S., Lond."

"I suffered from great irritation, accompanied with considerable and most annoying secretion of scurf, for which I had tried varied plans of treatment without success, but by using HOPGOOD'S CREAM, I was completely relieved in a few weeks, and have had no return."

"J. OLLARD, M.R.C.S., Lond."

Prevents BALDNESS, SCURF, GREYNESS,

AND IRRITATION OF THE SCALP.

Bottles, 1s. 6d., 12s. 6d. doz.; 2s. 6d., 20s. doz.; 3s. 6d., 30s. doz.

IMPORTANT TO EXPORTERS.

Properly stocked keeps in perfect condition two years.

Wholesale and Export Agents:

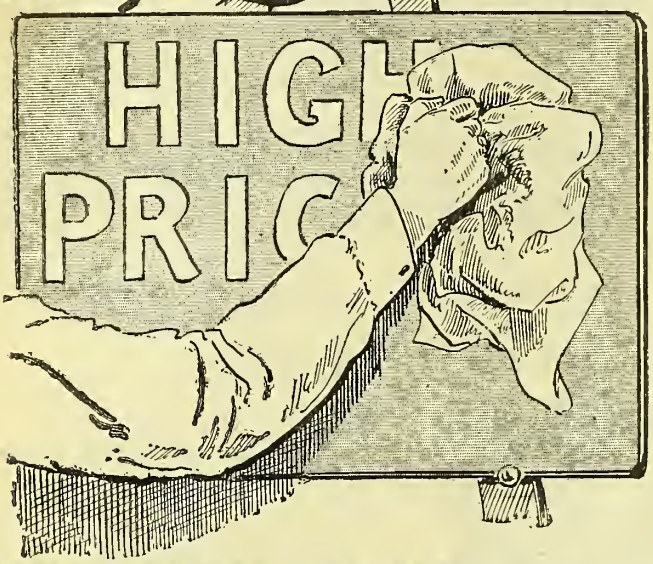
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OILS OF LEMON, ORANGE, BERGAMOT, LIMES, PEPPERMINT, &c.,

OFFER, ESPECIALLY TO

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1. The advantage of *a considerable saving in spirit*, of which large quantities are required for dissolving the ordinary Messina Lemon or Orange Oils.
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5. **The advantage of a considerable saving in freight, packing, and duty for export.**

Instructions for Use. 1 oz. of Haensel's Terpeneless Oil of Lemon or Orange dissolved in 15 oz. of pure Alcohol, 56 o.p., make **16 oz.** of a superfine concentrated Soluble Essence of Lemon or Orange, of which **1 or 2 fl. drachms** are sufficient to flavour **1 gallon of Syrup.**

One oz. of *Terpeneless Oil of Lemon* has the same strength as ***30*** oz. of best commercial Lemon Oil, requires for solution at the highest ***15*** oz. Alcohol, and suffices to flavour at least ***120*** gallons of Syrup. For cutting its equivalent, ***30*** oz. of ordinary Messina Oil of Lemon, in the proportion of 1:4, however, ***120*** oz. of alcohol are required, which sufficiently illustrates **the great saving in alcohol.** (Every 1 lb. of "Terpeneless" Oil thus ***saves 105*** lbs. of Alcohol.)

SOLUBLE TINCTURE OF LEMON OR ORANGE, made from the fresh peel with **Proof Spirit,** can be **fortified** by adding $\frac{1}{4}$ drachm of "Terpeneless" Oil to the pint of Tincture.

HAENSEL'S "TERPENELESS" OIL OF LEMON contains the **combined oxygenated constituents** of Lemon Oil, and is far superior to similar preparations, which contain only one oxygenated constituent; it rotates the plane of polarised light **to the left,** whereas *"Citral" is optically inactive.*

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The word **"Terpeneless"** was invented and introduced by me, solely for **HAENSEL'S Patent Non-clouding** Essential Oils, which are distilled by a special process from the choicest **NATURAL** Oils. The great success of same **during the last 15 years** has quite recently induced other houses to make use of the word **"Terpeneless"** for imperfect imitations—so-called concentrated and artificial oils.

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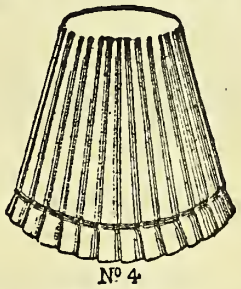
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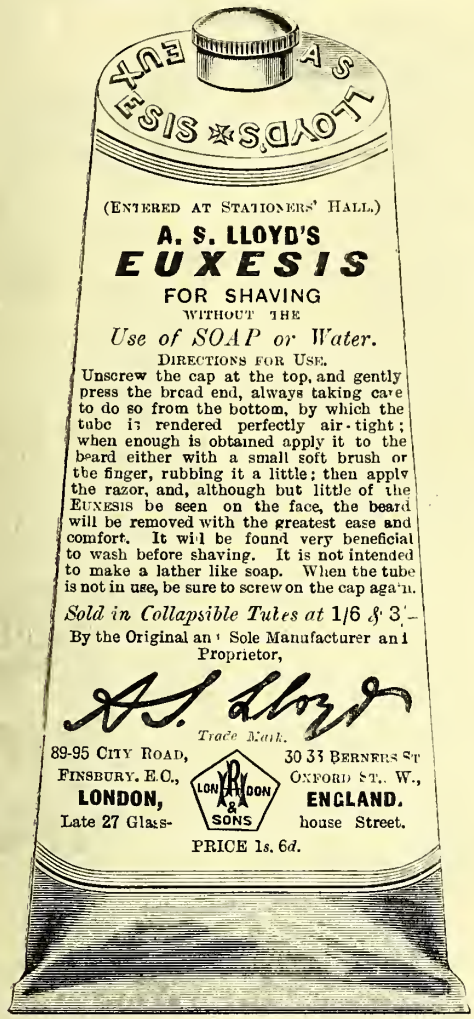
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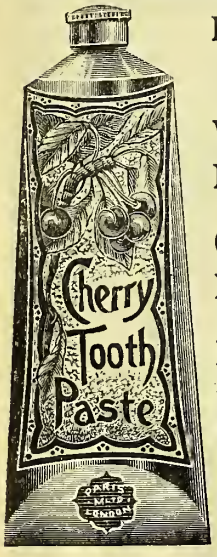
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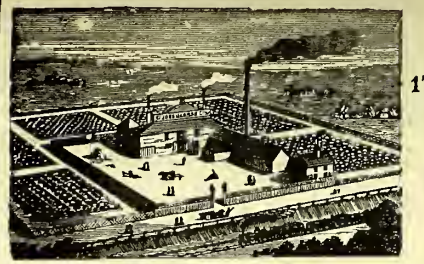


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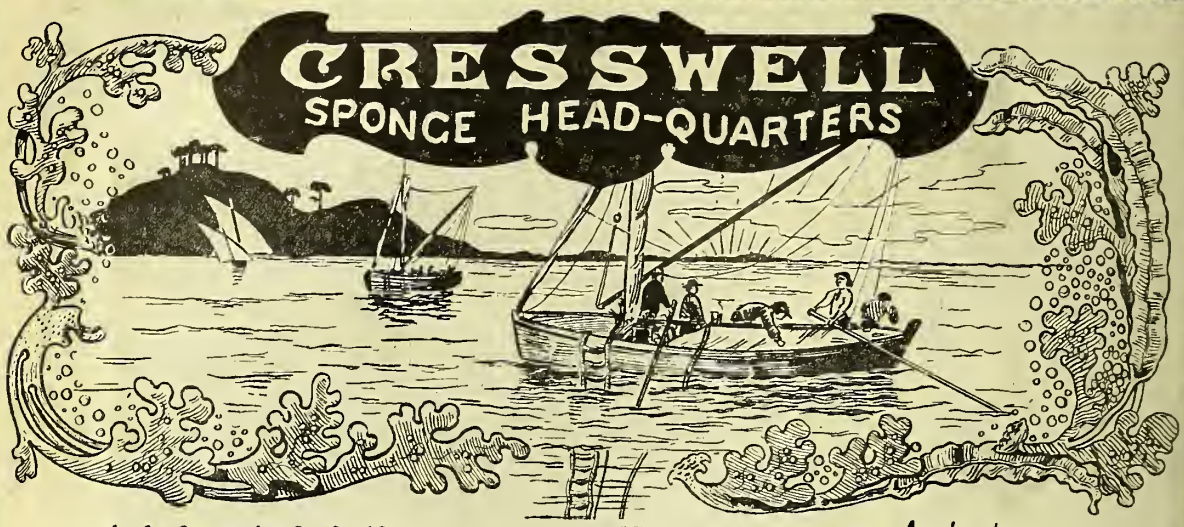
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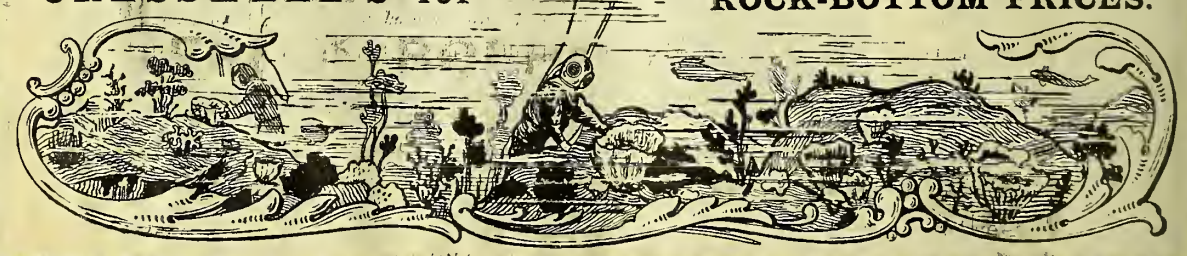
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IN HANDSOME COUNTER BOXES.

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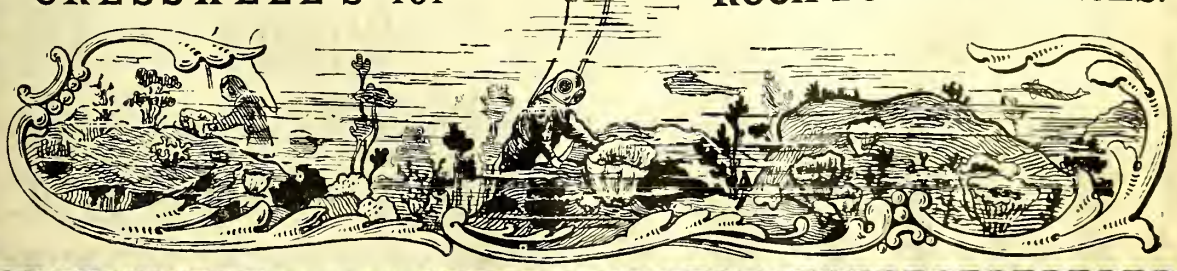
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A Fluid Extract, prepared from **Armour's Solid Extract of Beef,** combined with pure Beef in Powdered form supplying nourishing and muscle-forming constituents, along with stimulating properties.



It is specially designed as a finely-seasoned, nourishing, and stimulating beverage, soluble in hot or cold water.

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GENERALLY ADOPTED BY THE MEDICAL PROFESSION FOR

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For the Sick-room and Toilet.

In 1/- and 2/6 Bottles only, 8/- and 20/- per doz. respectively.

"ODORINE."

A Liquid Dentifrice and Mouth Wash, prepared with the Purest Carbolic.

In 1/- and 2/6 Sprinkler Bottles, 9/- and 20/- per doz. respectively.

PERKS' PERFUMES.

Various kinds, sizes, and prices.

MARSHALL'S CUBEB CIGARETTES.

For Asthma, Catarrh, Hay Fever, etc.

6*d.* Boxes, containing 10, per doz. 4/6 | 1/- Boxes, containing 28, per doz. 9/-

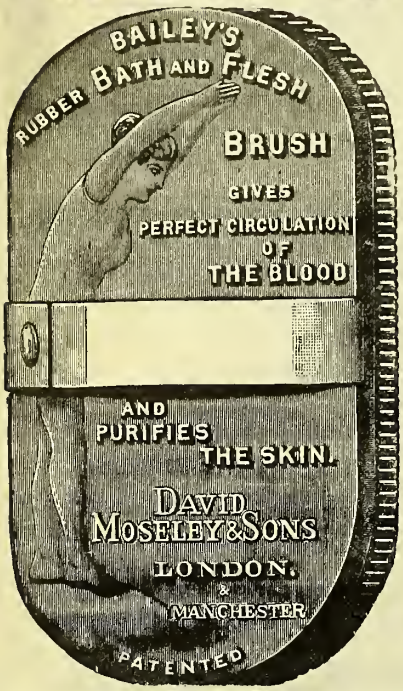
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BAILEY'S
PATENT RUBBER BRUSHES



Should be stocked by every Chemist and Dealer in Toilet Goods.

They are extensively advertised, have a ready sale, and show you a good profit.

			Retail at
Bailey's Rubber Bath Brushes ...	... 42/- doz.	...	5/- each
,, ,, Complexion ...	... 25/- ,,	...	3/6 ,,
,, ,, Toilet (large) ...	... 17/- ,,	...	2/- ,,
,, ,, ,, (small) ...	... 8/- ,,	...	1/- ,,
,, ,, Tooth, No. 1 ...	... 6/- ,,	...	10d. ,,
,, ,, ,, No. 2 ...	... 6/6 ,,	...	1/- ,,
,, ,, Teething Ring	... 3/6 ,,	...	5d. ,,
,, ,, Glove Cleaner...	... 4/6 ,,	...	6d. ,,

TO BE OBTAINED FROM ALL THE USUAL WHOLESALE HOUSES.

WHOLESALE ONLY from

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DRUGGISTS' SUNDRIES.

E. WIMPORY & CO.

131 & 132 BUNHILL ROW,

LONDON, E.C.



R. ADDIS & SON.

THE "EVERFAST" TOOTH BRUSH.



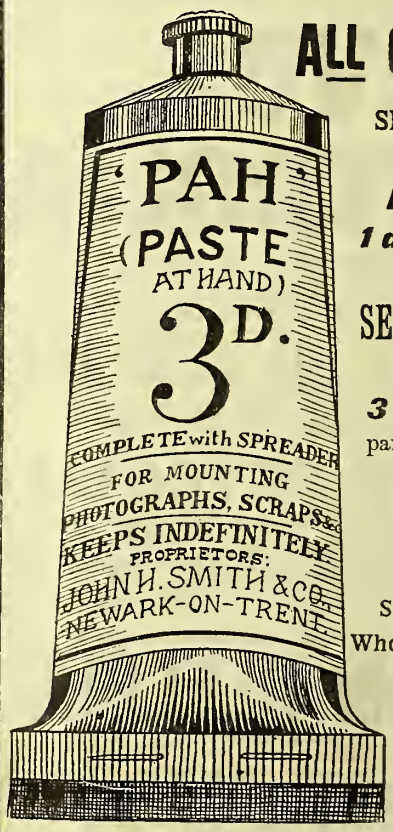


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WARRANTED LONDON MADE.

These Brushes are Manufactured on an entirely new principle. In addition to the ordinary means of securing the bristle, holes are drilled through the sides and our "Everfast" cement intermingled with the bristle By this original process every knot is so securely fastened that it is impossible for even a single hair to come out, the danger and unpleasantness of loose bristles in the mouth being completely removed. **Only materials of first-class quality used.**

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ALL CHEMISTS

Should keep it.

Put up on 1 doz. Cards.

SELLS AT SIGHT

3 doz. carriage paid on receipt of P.O. for

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Stocked by all Wholesale Houses.

Patent applied for.

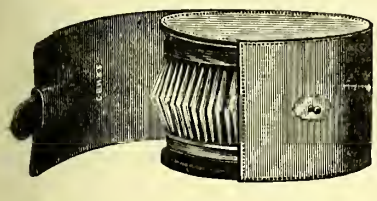
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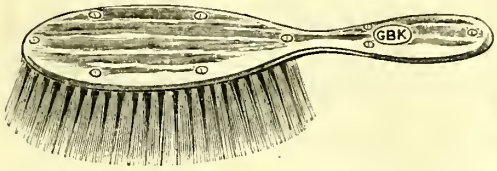
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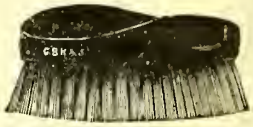
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ESTABLISHED 121 YEARS. **LONDON, ENGLAND.**

HAIR BRUSHES.







Facsimile of Imprint on Best Quality Tooth Brushes.

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Manufacturers
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Marks of Tooth Brushes—
"BEST," the highest quality manufactured.
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TOOTH BRUSHES.

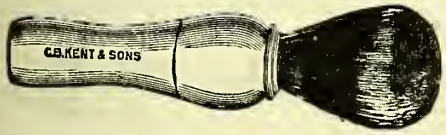


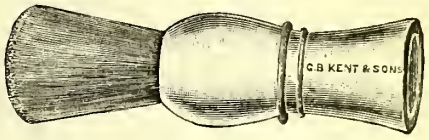
NAIL BRUSHES.



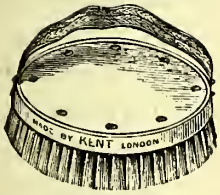


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Chemists will be interested in knowing that our well-known

"Snowdrift" Petroleum Jellies

conform to the requirements of the 1898 B.P. All our preparations are of uniform high quality, and give the most unqualified satisfaction wherever they are used. Samples will be sent if requested.

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LARGEST MAKERS IN THE KINGDOM.

We are prepared to supply METHYLATED SPIRIT in 5-gallon quantities at Lowest Prices.

REDUCTIONS TO LARGE BUYERS.
SAMPLES FREE.

1898 NEW BRITISH PHARMACOPŒIA, 1898,
S.V.M., S.V.R., and WINES.
WRITE FOR PRICES:—
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58 o.p. = 90 % Alcohol. | CALE STREET DISTILLERY, CHELSEA LONDON, S.W.

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33⅓ PER CENT. PROFIT. ENORMOUS SALES.

PRICES RIGOROUSLY PROTECTED.

Liberal Supplies of Advertising Matter, "Guides to Health," Counter Bills, and Window Signs—Carriage Free.

Chemists say "Munyon's" sell better and give better satisfaction to their Customers than any other Patent Medicine.

READ OUR LATEST TESTIMONIALS:

Mr. L H. VERDON, the well-known Cash Chemist and proprietor of the Higher Hillgate Drug Stores, of Stockport, writes:—"I am pushing your preparations, and find that the sale keeps up splendidly. The reason we push them is because they give us a good profit—in fact, we push all protected goods here. Your goods are pushed by all the leading chemists in Stockport."

Mr. J. ADAMS, Chemist, of 549 Green Lanes, London, N., writes:—"I beg to say that I found the distribution of pamphlets and the window-display largely increase the sale of your Remedies. I shall be pleased to repeat the display on a future occasion."

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Mr. D. G. BRACK, M.P.S., of Adelaide Terrace, New Benwell, Newcastle-on-Tyne, writes:—"Please send some of the Guides to Health. They help the sale of the Munyon Remedies splendidly."

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THE PROPRIETORS OF THE ALBION DRUG STORES, 14 Westgate (Market Place), Shipley, write:—"We find your now well-known Remedies sell more freely than ever. Our customers testify daily to their wonderful efficacy in curing disease."

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Mr. A. N. HARRIS, a popular Chemist, of 1 Liverpool Road, Stoke-on-Trent, writes:—"My customers speak very highly of the Munyon Remedies."

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47 REMEDIES for 47 AILMENTS, Retailing at mostly 1s. a vial.

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Contractors to the War Office and Admiralty, Railways, Steamship Companies, &c.,

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Telegraphic Address: "DAQUEZ LONDON."

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MARVELLOUS PREPARATION.

Refreshing as a Turkish Bath.
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Allays the Irritation caused by Mosquito Bites.
Restores the Colour to Carpets.
Invaluable for Toilet Purposes.
Removes Stains and Grease Spots from Clothing.
Invigorating in Hot Climates.
Cleans Plate and Jewellery.

Of all Chemists, Etc. **Price 1s. per Bottle.**

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Under P.A.T.A. Rules.

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We invite inquiries from the Home & Export Trade for—

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PALATINOIDS

CHEAPER THAN PILLS & TABLETS, AND MUCH MORE EFFECTIVE.

OF

CASCARA EXT.

(Equivalent to 30 minims of the Fluid Extract.)

PALATINOIDS

EASY TO SWALLOW.

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BLAUD'S PILL

CERTAIN IN ACTION.

SOLD IN BULK.

7/6 per 1,000, ***Subject to usual Discount.***

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BAILEY'S
TRUSSES

ARE THE BEST FOR SHAPE AND QUALITY. FIRST PRIZE, 1879.

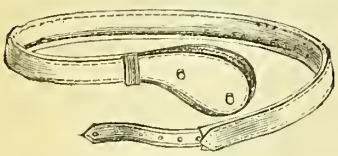


Fig. 1.

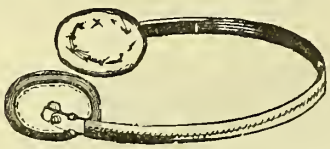


Fig. 10.

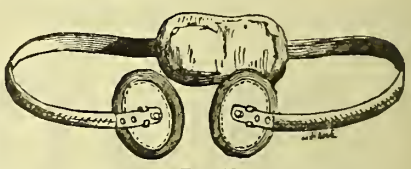


Fig. 10.

☞ Our Trusses are manufactured upon the premises. Customers' names stamped upon them. Special Trusses made in the shortest possible time. Facilities which no other wholesale London house can offer. Send for a sample of our Light Marone Trusses (name stamped in gold on orders of one dozen), 24/- per dozen.

SCROTAL AND IMPROVED SCROTAL TRUSSES.

Fig.	1.	Single Circular Trusses, per doz.			16/-	21/-	Circular, narrow, Single, per doz.		42/-
„	1.	Double „ „ „ „			30/-	34/-	„ „ Double „ „		60/-
„	1.	Bailey's "Export" Trusses, Single, per doz.			13/6		Scrotal, Single „ „	40/-	48/-
„	1.	„ „ „ Double „			24/-		„ Double „ „	68/-	84/-
„	10.	S. & O. Principle, Single „ „		27/-	30/-	36/-	Improved Scrotal, Single, each		7/-
„	10.	„ „ Double „ „		54/-	60/-	72/-	„ „ Double „		13/6

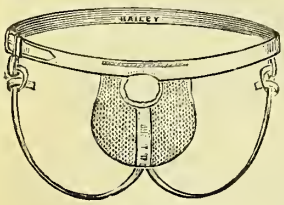


Fig. 1.

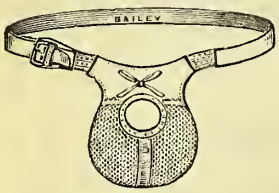


Fig. 2.

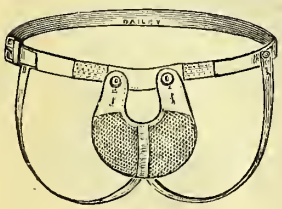


Fig. 3.

BAILEY'S
SUSPENSORY BANDAGES
A. B. C. SYSTEM.

The large and increasing number of orders from abroad proves the truth of

What "THE CHEMIST AND DRUGGIST" says:—

Every retailer knows what a worry it is to get a customer suited with a bandage when it has to be picked out of a drawerful of all sizes. Messrs. Bailey's system is to mark every bandage with a number and letter—4B, for instance. By referring to the list, one finds that No. 4 is so-and-so, and the letter B indicates the size. If B is too large, A can be supplied; if too small, then size C. In the case of hydrocele, where a continually increasing size is necessary, it will be seen how very convenient this system is for ordering. Apart from that, there is the convenience in stocking the bandages. Each one is put up in a neat slide-box, labelled at one end with the size and style, thus:—

To repeat quote No., 4B SILK. So that they are easy to pack away, easy to fit, and easy to sell, while the quality is excellent.

Cabinet of two dozen assorted, 30/-. USUAL DISCOUNT.
Containing six each, at 8/-, 10/-, 18/-, 24/- per dozen.

PRICE LIST. SPECIAL TERMS TO SHIPPERS.

		PER DOZ.
No. 0.	Cotton Bag, twill bands	7/-
„ 1.	As Fig. 1, Cotton Bag and Tape Under-straps	8/-
„ 2.	As Fig. 2, Cotton Oxonian, with drawing strings to contract the bag	10/-
„ 3.	Silk Bag and Tape Under-straps, Fig. 1	20/-
„ 4.	Silk Oxonian, with drawing strings to contract the bag, Fig. 2	18/-
„ 5.	Silk Oxonian, bag bound with Elastic, Fig. 2	24/-
„ 6.	Silk Oxonian, superior quality, bands of buff jean, with drawing strings to contract the bag	24/-
„ 7.	Silk Bag to button on, with tape under-straps	22/-
„ 8.	As Fig. 3, Silk Bags to button on, with under-straps to button	24/-
„ 9.	Silk Bag to button on, with under-straps, bands and under-straps entirely of silk elastic, 1¼ inch wide	33/-

Nos. 2 and 4 are in greatest demand.

W. H. BAILEY & SON, 38 OXFORD ST., LONDON, W.

Telegrams—"BAYLEAF," LONDON. Telephone No. 2942 (Gerrard).



'Lanoline'





'Lanoline'

The most natural, stable and elegant base for all medicated ointments. Its absorbent qualities are unique. Supplied in tins, at 2s. 8d. per lb.; anhydrous, 3s. 4d. per lb.

Toilet 'Lanoline'

A delightful and effective natural skin emollient possessing great soothing properties. In collapsable tubes, at 4s. 6d. and 9s. per dozen.

'Lanoline' Toilet Soap

Is carefully superfatted with 'Lanoline.' It is soothing to the most delicate or sensitive skin, and renders the hands beautifully smooth and supple. In boxes containing 3 tablets, at 4s. 6d. per dozen tablets.

Sole Licensees—

Burroughs Wellcome & Co,

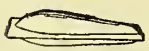
LONDON and SYDNEY.

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TRADE MARK 'Enule' BRAND

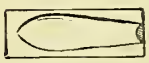
Rectal Suppositories



BEFORE REMOVAL OF SHEATH.—SIDE VIEW.



AFTER REMOVAL OF SHEATH.—ACTUAL SHAPE



BEFORE REMOVAL OF SHEATH.—TOP VIEW.

DESIGN REGISTERED—NOS. 300330/8.

THE hermetically sealed sheath of pure tin-foil in which each 'Enule' Rectal Suppository is enclosed, acts as a protective against septic contamination or thermal influences. It is easily stripped off immediately before use.

THE improved shape makes insertion easy and renders expulsion impossible. The active principles are evenly diffused throughout each 'Enule' Rectal Suppository.

THE Glycerin 'Enule' contains 95 % of anhydrous chemically pure glycerin, and is free from gelatin. Like the other 'Enule' Suppositories, it will keep even in tropical climates, is readily soluble and prompt in action.

LIST.

	Per doz. boxes of twelve.
BELLADONNA EXTRACT, gr. 1/4	14/-
BELLADONNA EXTRACT, gr. 1/2	16/-
BELLADONNA EXTRACT, gr. 1	18/-
BISMUTH SUBGALLATE, gr. 10	18/-
GLYCERIN (95 %) ... ... (Children's or Adults' size.)	8/6
'HAZELINE' COMPOUND ... ... (Containing 'Hazeline', Hamamelidin, Zinc Oxide, etc.)	18/-
MEAT (Predigested)	18/-
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COLONIAL TRADE.

IF there is one thing more certain than another regarding the future export trade of the United Kingdom, it is that the population of our Empire beyond the seas will be our best customers. The national statistics prove that the imperialistic spirit maintains it, and it behoves manufacturers and merchants to encourage it. The encouragement of colonial trade has been one of THE CHEMIST AND DRUGGIST'S strong points from the outset. Through our annual Colonial Issue we give an exceptional opportunity for advertisers to increase their business with the colonies. This issue will be on April 29, and, in addition to those who receive it weekly, it will be sent to all buyers of druggists' goods in India, Burmah, Straits Settlements, South Africa, China, Japan, and the West Indies. The publisher will give any inquirer information regarding this important issue.

Summary.

ANOTHER saccharin-patent action is reported (p. 424).

TRANSVAAL CHEMISTS have obtained a revision of their annual tax (p. 395)

DISINFECTANTS are cheap to local vestries, as the quotations on p. 391 show.

AUSTRALIA is not at all anxious for the Colonial and Indian Addendum to the B P. (p. 394).

A CRITICAL ACCOUNT of the Irish Licence-examination by an English licentiate appears on p. 393.

INQUESTS have been held on two chemists. One took an overdose of chloral, and the other took prussic acid while insane (p. 391).

THE B.P. METHOD for assaying ext. bellad. liq. is tedious and inaccurate. Mr. E. Dowzard describes an improved process (p. 401).

THE ABERDEEN SCHOOL OF PHARMACY, promoted by the local Chemists' Association, is the subject of an illustrated article on p. 400.

THE PHARMACEUTICAL SOCIETY OF IRELAND are appealing to the local Councils for support in their crusade against company-pharmacy (p. 392).

FURTHER SELECTIONS from poisons-regulations suggestions are given on p. 412. Several correspondents also comment on the subject (p. 430).

THE DEWSBURY CHEMISTS' ASSOCIATION have held their first dinner, and were duly complimented on the eminence to which they have attained (p. 422).

THE QUESTIONS given in the second Spectacle-makers' Company's examination are printed on p. 400, and some comments upon the examination on p. 416.

THE GOVERNMENT BILL to amend the sale of Food and Drugs Act has been debated in the House of Commons, but has not yet passed its second reading (p. 427).

THE BOW STREET MAGISTRATE has decided that boric acid in milk is not an adulteration. A farmer's formula for this preservative is given in the report (p. 425).

AN INJUNCTION has been granted at Manchester against a chemist who had contracted not to oppose his previous employer within a certain space and time (p. 425).

THE CAPE PHARMACEUTICAL SOCIETY is flourishing, and proposes to promote scientific matters amongst its members. We report the annual meeting on p. 395.

THE POISONS REGULATIONS (with the Schedule of poisons) are printed on the last two pages of this issue, so that they may be removed to make a placard (pp. 441–442).

IN "MARKET-MATTERS" we comment upon the present positions of several important trade articles—viz., arrowroot, bark and quinine, camphor, cod-liver oil, and otto of rose (p. 416).

IN "THE CHEMISTRY OF GOUT" Dr. A. P. Luff explains that the disease is due to deposition of insoluble biurates in the cartilage owing to reaction between soluble quadriurates and sodium carbonate (p. 404).

SO-CALLED QUININE-WINE made with the proper proportion of quinine, but with a very dilute alcohol instead of wine, and preserved by salicylic acid, has been again the subject of a fine (p. 425).

THE PRESIDENT of the Pharmaceutical Society of Ireland justified to his Council at the March meeting the open letter he had written to the President of the British Society in reference to the Pharmacy Bill (p. 397).

WE COMMENT on a notable article in the *Contemporary Review* on monopoly in British industries, in which the action of chemists in protecting prices of proprietary articles is prominently referred to (p. 414).

THE CHEMISTS' ASSISTANTS' ASSOCIATIONS of London and Edinburgh have had their annual dinner and supper respectively, and we report both functions. In the case of the latter we reproduce the menu and the menu-card, which were original (p. 421).

D—E

English News.

Local newspapers containing marked items of news interesting to the trade are always welcomed by the Editor.

Royal Institution.

Donations of 100*l.* from Sir Andrew Noble and 52*l.* 10*s.* from Mr. Edward Kraftmeier to the fund for the promotion of experimental research at low temperatures were acknowledged at the monthly meeting of the Royal Institution on March 6. The Duke of Northumberland was elected President in the place of his late father.

Physical Laboratory for Liverpool College.

On March 4, at a banquet given by the Lord Mayor of Liverpool to Dr. Oliver Lodge, Professor of Physical Science at Liverpool University College, in recognition of his having received the Rumford medal of the Royal Society, reference was made to the necessity for the erection and endowment of a physical laboratory at the college. Principal Glazebrook said such a laboratory would require from 30,000*l.* to 40 000*l.* Towards this one anonymous donor has promised 10 000*l.*, Sir John Brunner has promised 5,000*l.*, and Mr. Alfred Booth would give 2,500*l.* if three others gave a similar sum.

Fire.

While one of the resident medical officers at St. Mary's Children's Hospital, Plaistow, was engaged in making up a prescription on March 3, he accidentally knocked over and smashed a bottle of ether. The doctor was in the act of emptying what remained in the broken receptacle into another vessel, when the ether ignited, and he was badly burned about the hands and face. The woodwork of the dispensary caught fire, but was promptly extinguished. Considerable damage was done to drugs and medicines.

Stealing from Chemists.

At Sleaford Police Court, on February 27, Rose Cunnington and Ada Parker were charged with stealing four packets of tobacco and a bottle of scent from Mr. J. R. Wood, chemist, Sleaford, and Cunnington was further charged with stealing two bottles of scent from Mr. J. W. Hickinbottom, also a chemist, of Sleaford. Prisoners purloined the articles while in the shops making small purchases. Cunnington was fined 10*s.* and costs in respect of each charge, and Parker 7*s.* 6*d.* and costs.

"Collecting an Account."

At Leeds Police Court on February 27, a man named Hogg was fined 40*s.* for assaulting Ernest Redhead, manager to Mr. E. Brownhill, chemist, Leeds. The circumstances of the assault were published in our issue of February 25, with the above heading.

The Benefit of the Doubt.

At Staffordshire Quarter Sessions, on March 3, Arthur Greaves, who was charged at Penkridge a few weeks ago (*C. & D.*, February 4, page 203) with obtaining by false pretences a musical-box from Wm. Thos. Grace, chemist's assistant, Cannock, was brought up for trial. In defence, prisoner stated that he sent to the prosecutor a half-plate bellows camera and a quarter-plate box camera, but had been unable to trace them since. The jury thought there was a doubt in the case, of which they gave prisoner the benefit, and he was acquitted.

Football.

The Metropolitan College of Pharmacy played its final Association match for this season on Saturday last, at Shepherd's Bush, against the Hawley F.C, and secured an easy win by 7 goals to nil. The Metros. have played 13 matches between October 29, 1898, and March 4, 1899, and have won 10 of these and drawn 3. Their goals in the 13 matches have totalled 50, while the goals scored against them have been 11 only.

"Sipitee" for Seidlitz.

In our issue of February 25, we reported that an inmate of the Canterbury Workhouse had taken precipitate powders in mistake for seidlitz. The patient was treated by the medical staff and had apparently recovered, but has since died, the cause of death being, according to Dr Wacher, "gastritis accelerated by an overdose of mercury." Deceased sent a fellow inmate to the shop of Mr. Mount, chemist, Palace Street, for the powders, and it is conjectured that he asked for "sipitee" or "sipitate," instead of for seidlitz. The powders were properly labelled "Poison," and the Coroner said no blame was attached to anyone. Death from misadventure was the verdict.

"Dutch Drops" and Dyspepsia.

At Chelsea, on March 7, an inquest was held on Henry Roberts (90), who was found dead in his bed on March 5. Deceased's landlady said on the day before his death deceased complained of indigestion, and told her he had taken "Dutch drops" to relieve the pain. The "drops" were obtained for him by a nephew who was at sea. Dr. Wilson Erskine, of Beanfort Street, who was called in, said he found deceased suffering from acute dyspepsia, but he did not tell him anything about taking "Dutch drops," a bottle of which he found in the room after the death. The drops were simply turpentine in a crude form. Death, in his opinion, was due to syncope from rupture of the heart caused by an attack of vomiting set up by acute indigestion, and accelerated by the self-administration of the "Dutch drops." Death from misadventure was the verdict.

The Sale of Poisons.

On March 6 an inquest was held at Gillingham, Kent, touching the death of Frederick Austen, a corn-dealer, who was found dead in bed on March 4. Evidence was given by Albert Edward Farrow, chemist, 45 High Street, Old Brompton, to the effect that deceased called at his shop on March 3 and requested to be supplied with some arsenic. This Mr. Farrow at first refused to do, but upon the deceased representing that he wanted it to poison foxes, who were playing great havoc among his pheasants, he was supplied with a quantity of vermin-killer. Further evidence showed that upon reaching home that night deceased mixed a portion of the poison with water and drank it, and was found dead in the morning.

The Coroner, having reviewed the evidence, said he thought the case a very clear one, and asked the jury to give their verdict. Upon this the father of deceased said, "I think Mr. Farrow ought to be blamed for having sold poison to my son He did not know me."

Mr. Farrow: True, but I did not sell it to you.

The Coroner: Don't argue with him, you are not to blame. Poisons must be sold. (To the jury.) Mr. Farrow knew the deceased, he cautioned him as to its deadly nature, and made him sign for it, therefore he is in no way to blame.

The jury returned a verdict of suicide during temporary insanity.

"A Very Sensible Chemist."

At the Manchester City Police Court on Monday, March 6, a bricklayer, named James Howard, was charged with attempting to commit suicide on Saturday night He had been drunk on Saturday afternoon, and quarrelled with his wife. She went to a neighbour's house, and then Howard sent his little boy to the shop of Messrs. J. S. Smith & Co., chemists, 307 Chester Road, for sixpennyworth of carbolic acid. The chemist refused to serve it, the lad being very young. The father then sent the boy for sixpennyworth of chlorodyne. This was also refused. Howard then went to the shop himself, and saw Mr. Grierson, the manager, and in a gruff voice asked for sixpennyworth of chlorodyne. Mr. Grierson asked him what he wanted it for. The prisoner replied, "I have taken gallons." Mr. Grierson said, "I don't know about that. You might want to poison yourself." "There is no fear of that," responded Howard. Mr Grierson, however, under all the circumstances, was not satisfied, and made a mixture which smelt like chlorodyne, but consisted for the most part of water, and if the lot had been taken it would have done no harm. Howard went home and swallowed the mixture, kissed his two sons, bidding them good-bye, and threw himself upon the sofa, saying that he should not "wake any more." The boys then went for their mother, who proceeded to the chemist for an emetic. Mr. Grierson sent some sulphate of zinc and an innocent powder, and told her if her husband would not take it she was to

fetch a policeman. This was done, with the result that Howard, who the policeman said was too "lively" for a dying man, was taken into custody. Mr. Grierson having testified to the above facts, the Justices told him that they "thought he was a very sensible chemist," a remark which caused much laughter in court. Howard was remanded for a few days.

Chemists' Deaths.

At Nottingham, on March 3, the circumstances attending the death of John Gordon Sinclair, chemist, of 177 Alfreton Road, were investigated by a coroner's jury. Ernest Suffolk, apprentice to the deceased, stated that on the day preceding his death Mr. Sinclair complained of pain in his back, and took a sleeping-draught, containing 12 gr. of chloral. The next day he seemed very ill, and took another draught, containing 15 gr. of chloral. He went to sleep, and did not wake up again. Medical and other evidence having been given, the jury found that deceased died from heart-failure, accelerated by the use of chloral and alcohol.

On March 6 an inquiry was held at Wandsworth into the death of Thomas Brooks (52), chemist and druggist, carrying on business at 1 Church Road, Wandsworth. Mrs. Brooks, the widow, stated that the deceased had been in business at Wandsworth for twelve years. Latterly he had been much worried in consequence of opposition having sprung up, and the thought that he was about to remove to other premises troubled him greatly. He said that life was not worth living, and he thought he would take prussic acid. He was very low and despondent on the day of his death, but attended to the shop as usual. Witness went to bed about 12 o'clock that night, and her husband promised to follow later on, but was found a short time afterwards lying dead on the floor of the scullery. Dr. Leonard Harman, who was called in, having given evidence, the Coroner said the case was a very sad one, the deceased being well known and much respected in the town. The jury returned a verdict of suicide during temporary insanity.

An Apprentice's Suicide.

At Brighton on March 8 an inquest was held on Wm. Alfred Purt (16), described as a chemist's articled pupil, who had poisoned himself with chloral, rather than go into a hospital for rest. His left leg had been amputated, and the wound had not properly healed. The jury found there was no evidence as to the state of his mind.

Medicine-mistake.

An inquest was held at Bournemouth, on March 3, into the circumstances attending the death of the Rev. A. K. H. Boyd, D.D., of St. Andrews, from carbolic-acid poisoning. According to the evidence of the Rev. H. B. Boyd, a son of deceased, his father had gone to Bournemouth to recruit, after a severe illness, and was taking sleeping-draughts of paraldehyde, and at the same time using a solution of carbolic acid to cleanse a surgical instrument. Messrs. Smith & Govan, chemists, St. Andrews, had sent six bottles, each containing one dose of the sleeping-draught, and six bottles of liquefied carbolic acid for the use of deceased. Witness pointed out to the jury that the bottles were all similar in size and shape, were each capped with a white capsule, and wrapped in the same kind of packing-paper. Witness went on to explain that both were enclosed in paper and in an outer case, and that deceased must have taken up the wrong case and swallowed the contents of the wrong bottle. When he found out his mistake Dr. Boyd immediately informed Mrs. Boyd of the occurrence. A doctor was called in, but deceased died within an hour. A juryman said it was a pity the bottles containing the poison were placed in such close proximity to the sleeping-draughts. The Coroner admitted that was so, and showed that when the bottles were standing in their packing-wrappers they were almost alike, but when taken out of their coverings they were very dissimilar. They were properly labelled, the carbolic acid being in a green bottle with a poison-label affixed. The jury must give the chemist credit for that, as if Dr Boyd had exercised the discretion which one would have expected, he would first have looked at the bottle before he took the contents. A verdict of death from misadventure was returned. [Both bottles were wrapped in corrugated paper, and white demy. Dr. Boyd simply tore off the paper at the neck.]

Disinfectants for the St. Luke's Vestry

At Tuesday's meeting of the St. Luke's (Middlesex) Vestry, the Public Health Committee brought up recommendations with regard to the supply of disinfectants for the parish for the ensuing twelve months, commencing at Lady Day. There were eleven tenders as follows:—Messrs. Adcock, Easton & Co., Charteris Works, Finsbury Park, commercial liquid carbolic acid, 10½*d.* per gallon; carbolic powder 3*s.* per cwt.; carbolic powder, per gross of 1-lb. packets, 5*s.* 9*d.*; best quality sanitas, crude, in casks of 18 gallons, 3*s.* 5*d.* per gallon. The Elephant Disinfectant and Chemical Company, Neate Street, Camberwell, 1*s.* 2*d.*, 3*s.* 4½*d.*, 6*s.* 6*d.* and 4*s.* 3*d.* Major & Co. (Limited), Sculcoates, Hull, 1*s.* 4*d.*, 5*s.* 9*d.*, and 12*s.* (no fourth) Jeyes' Sanitary Compound Co. (Limited), 64 Cannon Street, E.C., 1*s.* 2*d.*, 4*s.* 9*d.* and 9*s.* Dussek Brothers & Co., Verney Road, S.E., 1*s.*, 2*s.* 9*d.*, and 6*s.* Esset's Sanitary Fluid and Appliances Company, 102 High Street, Battersea, 11½*d.*, 3*s.* 4½*d.*, and 6*s.* George Mayor & Co., Love Lane, Southwark, S.E., 11*d.*, 3*s.*, and 5*s.* 10½*d.* Whalley's Sanitary Fluid Company, Dunedin House, Basinghall Avenue, E.C., 1*s.* 2*d.*, 3*s.* 10*d.*, and 7*s.* 6*d.* Sanitas Company (Limited), Letchford's Buildings, Bethnal Green, E., 1*s.*, 3*s.*, 6*s.*, and 3*s.* 6*d.* Burt, Boulton & Heywood, 64 Cannon Street, E.C., 1*s.* 1*d.*, 2*s.* 9½*d.*, and 7*s.* 8*d.* Tuson's Disinfectant Company (Limited), Crown Works, Marshgate Lane, Stratford, E., 1*s.* 1*d.*, 2*s.* 6*d.*, 5*s.*, and 4*s.* The recommendations of the Public Health Committee were to accept Tuson's tender for carbolic powder and carbolic acid for one year, and of the Sanitas Company for the supply of crude sanitas. Mr. Howes (Chairman of the committee) said the question had been asked why the tender of Adcock, Easton & Co. had not been recommended, seeing that their price for the carbolic acid was only 10½*d.* per gallon, when Tuson's price was 1*s* 1*d.* But members would notice that the price of the former was 3*s.* for the carbolic powder, and that of the latter 2*s.* 6*d.* The committee worked out the figures, and found that Tuson's was the lower, as the average consumption of acid was about 470 gallons, and of the powder about 255 cwt. The recommendations were adopted.

Sparklets.

Mr. Horace Cox, editor of the *Field*, in a letter to the *Times* of March 2, warned all and sundry of the danger attending the use of sparklets. He related that his son was engaged in using a sparklet in the ordinary way at the dinner-table, when the patent bottle exploded, and he was drenched with aërated water and covered with jagged particles of broken glass and a coating of potash. A few days later another *Times* correspondent, Mr. Andrew Tuer, admonished Mr. Cox for trying to kill a useful invention because he had had a fright. Sparklet-bottles, said Mr. Tuer, might, like gazogenes, occasionally break up under pressure, but, being protected by an openwork covering of woven cane, danger from accident was slight. With a removable protective covering of felt or similar material sparklets, in Mr. Tuer's opinion, would be really safer to handle than a bottle of ordinary soda or seltzer water. One of our representatives, who interviewed the under-manager of Aërators (Limited) on the subject, learned that Mr. Cox had been seen on the matter, and it was found that the bottle which burst was one of a type which had been discarded by the company some years ago. The matter having been fully explained to Mr. Cox, he had professed himself satisfied, and promised to publish an amending letter. Mr. Cox has since written, and states that the director of the company assures him that since December last no fewer than 50,000 bottles and stoppers of an improved make and design have been sold in this country and on the Continent, and that no instance of a bottle bursting is known.

Funeral of the late Mr. Barron.

The funeral of the late Mr Richard B Barron took place at the churchyard of Lyne, Chertsey, last Saturday afternoon. It was of a private nature, but about forty members of Messrs Barron, Harveys & Co.'s staff attended, as well as the partners, Messrs Ralph K. Harvey, Roger M. Harvey, and W L Howie. There was also a representation from the Drug Club (Messrs. A. B Hill, F H. Lescher and others), and several City friends of the deceased gentleman, amongst them being Messrs. Quincy, Preston, S. Lambert, &c.

Irish News.

April Preliminary Examination.

Applications for this examination should be lodged with the Registrar (67 Lower Mount Street, Dublin) by 11 A.M. on Tuesday, March 21, at latest.

Business Change.

Mr. C. A. Bowles, agent for Messrs. Blake & Mackenzie, Liverpool, and Messrs. Hodgkinson, Prestons & King, London, has removed to 28 Brighton Avenue, Rathgar, Dublin.

Personal.

Mr. E. M. Hodgson, M.P.S.I, Chairman of Rathmines Urban District Council, and Mr. R. K. Clay, Solicitor to the Pharmaceutical Society of Ireland, have been elected by their constituents to the County Councils of Rathmines and Dalkey Divisions respectively.

Scrubb's Ammonia for Murray's Magnesia.

An inquest was held last week in Dublin on the body of a child whose death was caused by the accidental administration of Scrubb's fluid ammonia in mistake for Murray's fluid magnesia. The bottle containing the ammonia was on the kitchen-table, and the bottle containing the magnesia was on the dresser. The bottles were somewhat similar. The jury found a verdict of accidental death, and added a rider that they thought Scrubb's ammonia and similar poisonous preparations ought to be labelled with a distinctive and striking label.

Ballinasloe Leads.

At a meeting on March 1 of the Ballinasloe Guardians, a resolution was adopted drawing the attention of the Local Government Board to the gross injustice to Irish traders which is represented in the question which Mr. McCartan, M.P., addressed to the Irish Secretary on Monday, and which we report elsewhere. The Ballinasloe Guardians protest against the L.G.B.'s action, and call on the ratepayers to unite in preventing a job on the part of those responsible for the framing of the new regulations, such action being calculated to strangle local enterprise. A copy of these resolutions was ordered to be sent to all the Poor-law Boards in Ireland, with a request to join in the protest against English interlopers in the Irish drug-trade.

The Pharmaceutical Society Appeals to Local Councils.

A circular has been issued by the Pharmaceutical Society of Ireland to every county, urban, and borough council in Ireland, pointing out that in the last Session of Parliament the Council of the Society petitioned both Houses of Parliament, setting forth the difficulty experienced in carrying out the Pharmacy and Poison Laws committed to their care, and praying for the amendment of the Companies Acts. Now, in order to obtain that support and influence which they recognise are necessary to impress the Government, they invite the councils to whom the circular is addressed to pass a resolution supporting the various contentions of the Pharmaceutical Society. It is pointed out that there is no intention of interfering with those co-operative societies which distribute only to their members, but only with those companies which keep open shop contrary to the terms of the Pharmacy Act, and this grievance is set forth in some detail.

At a meeting, on March 2, of the Rathmines (Dublin) Urban Council the circular of the Pharmaceutical Society of Ireland referred to above was discussed. The Chairman (Mr. E. M. Hodgson, M.P.S.I.) explained that, in his experience of pharmacy, limited-liability companies were only formed to find the capital, but fully-qualified persons were employed to conduct the business. Councillor Murphy (general grocer) was of opinion that the Pharmaceutical Society took a very narrow view of things. He knew several cases where the progress of young men had been seriously retarded by such narrow-mindedness. Councillor Hewson objected to companies which sold pigs' cheeks at one counter and pepsine-pills alongside. Councillor Edmondson (laundryman) thought the Pharmaceutical Society had no right to approach the Urban Council on such a subject. It was decided to inform the Society that the subject was outside the business of the Council.

The Blackrock Urban Council was more sympathetic. Mr W. Field, M.P., who was present said he knew something about the matter, which was a technical one. He agreed with the Pharmaceutical Society that only qualified chemists should be allowed to sell poisons. On his suggestion the matter was referred to a committee.

Scotch News.

Business Change.

Mr. J. R. MacRossen, chemist and druggist, has taken over the business at 261 Maxwell Road, Pollokshields, carried on for many years by the late Mr. A. Kinnimont, and latterly by Mr. Andrew Morrison.

A New Store.

A new co-operative society, on the lines of the Army and Navy and Civil Service Supply Stores, has been formed in Edinburgh, which includes a drug and perfumery section amongst its departments. The company propose to lease the Albert Hall and adjoining premises in Shandwick Place, a few doors from Messrs. W. Inman & Co. (Limited).

Chemist's Assistant's Rescue.

While some boys were amusing themselves at the North British Railway Pier, Dundee, on February 27, one of their number stumbled and fell into the river. The accident was witnessed by, amongst others, Mr. Robert McMillan, chemist's assistant, who promptly jumped in after the boy, got hold of him before he sank, and brought him to land.

Licence to Chemical Company Refused.

A meeting of the Midlothian County Council was held on March 8, at which it was decided not to grant a licence to the Scottish Standard Meat-biscuit and Chemical Company for the establishment of the business of manure and chemical manufacturers, &c., at Edgefield, near Loanhead. A farmer whose holding is within 600 yards of the proposed factory objected, and the licence was refused on the ground of public health.

Edinburgh Pharmacy Athletic Club.

A meeting of this club was held, on March 6, at 36 York Place, Mr. Geo. Somerville (President) in the chair. The Secretary's report disclosed a successful year's work, while the Treasurer's statement showed a balance of 14*l.* on the right side. It was intimated that the annual sports would take place on May 24 at Powderhall grounds, and would be arranged on much the same lines as formerly. A guinea was voted to the Benevolent Fund of the Pharmaceutical Society, and the following officers were elected for next season:—Hon. President, Mr. George Coull; President, Mr. George Somerville; Secretaries, Messrs. J. P. Gibb, 8 Cobden Crescent, and John Aikman; Treasurer, Mr. D. S. Napier; Committee, Messrs. J. McBain, A. R Smith, J. D. Ross, W. C. Taylor, W. J. Walker, jun., and W. Butters.

Edinburgh District Chemists' Golf Club.

The annual general meeting was held at 36 York Place, on February 28, the Captain (Mr. H. D. Alexander) in the chair. The Secretary's and the Treasurer's reports were regarded as highly satisfactory, and were adopted. The Chairman stated the past season had been a most successful one, and all the competitions were well contested. The officers elected for the current year were:—Hon. President, Mr. George D. Mackay; Captain, George Robertson; Vice-Captain, James Stott; Hon. Secretary, W. C. Baker, 13 Dundas Street; Assistant Secretary, Wm. Lyon; Hon. Treasurer, W. B. Cowie; Committee, H. D. Alexander, T. D. Burt, A. J. Dey, A. C. Kirkpatrick, G. Lunan, W. Swan, and S. R. Wood.

French News.

(From our Paris Correspondent.)

The Académie de Médicine, in Paris, have admitted Lord Lister, of London, and Professor Koch, of Berlin, almost unanimously as foreign members.

The Pharmacie Centrale de France announces the payment of a dividend to shareholders, making a total distribution of 5 per cent. for the last financial year.

M. Planchon, Director of the Paris School of Pharmacy, gave a public lecture last Monday afternoon, at 83 Boulevard Arago, Paris, on "Tea and its Congeners," to an audience of ladies.

M. Peytral, the French Minister of Finance, and ex-wholesale druggist of Marseilles, was a candidate for the important post of President of the Senate at the election held on Friday of last week, but he did not secure the necessary majority, M. Fallières being elected.

For Headache.—At the last meeting of the Paris Therapeutical Society M Gallois mentioned that he had obtained good results by treating headache by bicarbonate of soda, taken at meal times in water, the proportion being a teaspoonful of bicarbonate to a quart of water.

The Protection of Designs, &c., at the 1900 Paris Exhibition is receiving the serious attention of M. Paul Delombre, the French Minister of Commerce, and he has recently drafted a Bill for the protection of what is termed here "industrial property" at the coming Exhibition.

Ever to the Front.—Emile Renaudière, pharmacy-student, was among the "manifestants" recently condemned by the Paris police courts for insults to the new President at the funeral of M. Félix Faure. He was sentenced to a fortnight's jail. Although he cried "Vive l'armée!" it appears he escaped military service on the ground of "nervosity."

The Advertising Pharmacien.—The following is the latest advertisement by a retail pharmacien in the Paris daily newspapers:—"Have irreproachable products carefully prepared by diplomaed pharmaciens, delivered immediately by automooiles, in Paris, at barely remunerative prices, that is the last word of progress just realised by the clever director of the grand Universal Pharmacy-Druggery. Ask by telephone for the catalogue to judge of the progress realised."

The "Corricide" Trade-mark.—M. Le Brun, the Paris pharmacist who has summoned a number of country pharmacists with a view to protecting the word "Corricide" as his trade-mark for a corn-cure, has met with another rebuff. On this occasion M. Marchand, pharmacien at Ruffec, was attacked, but he was able to prove that his predecessor used the name twenty years ago—*i.e.*, before M. Le Brun had registered the title. M. Marchand consequently brought a counterclaim for damages, on the ground that the action was "imprudent and vexatious"; he obtained 50f.

Pharmaciens *v.* Grocers.—A short time ago the Pharmacists' Syndicate of Montpellier issued a somewhat strongly-worded circular to the local grocers recommending them, in the event of their selling medicines, to discontinue such sale at once if they wished to avoid legal proceedings. The *Epicier*, a grocery organ, has taken the matter up in the interests of the trade it represents, and promises to do its best to reduce the pharmacists' monopoly to a minimum. Air, water, heat, and cold, it sarcastically adds, are at the disposal of everyone, and are also powerful medicinal agents; pharmacy, it says, has not yet tried to monopolise them, but perhaps may come to it.

The Bianchini Poisoning-case was opened on Monday last, before the Court of Assizes of the Seine. Mme. Bianchini was charged with attempting to poison her husband, while he declares her innocent. They had had matrimonial complications, and decided on a divorce, and shortly afterwards the husband became unwell and showed symptoms which puzzled the doctor; other medical men were called in, and they were equally puzzled. Then it appeared that the wife had asked Dr. Chevassu to prescribe some atropine for her dog. This request aroused the doctor's suspicion, the symptoms from which the husband was suffering being those of atropine-poisoning. The accused was proved to have procured 60 centigrammes of atropine from various pharmacies by signing doctors' names. She stated that the drug was to be used for her own eyes and those of her dog. The medical evidence (given on Tuesday) was somewhat conflicting. When Dr. Chevassu was called in he stated that M Bianchini was "black, dead, more dead than any corpse I have ever seen." He injected caffeine, but without apparent effect. Drs. Gilles de la Tourette and Jean Charcot, who were called in by Dr. Chevassu, both held that poisoning by atropine could not be scientifically proved. Dr. Brouardel, who considers that all the symptoms of such poisoning were present, had a long technical discussion in court with these two doctors. Dr. Catois, of Caen, witness for the defence, maintained that all the symptoms were not present. M. Ogier, Director of the Laboratory of Toxicology, supported the conclusions of Dr Brouardel. Mme. Bianchini was on Wednesday sentenced to five years' penal servitude.

From Narbonne.—A conspicuous feature of the walls of Narbonne just now is a white and green poster, 4 feet by 2 feet, in this style:—

Boulevard de
Opening of the
Pharmacie Moderne (9-inch letters).
F. Blank (6-inch letters)

informs the public that he supplies the first quality of medicaments at lowest prices.

20% reduction (6-inch letters) on all French and foreign specialities.

A large assortment of bandages of every kind from 1f to 10f.

The most obstinate cough cured in twenty-four hours by Blank's pectoral syrup.

I hear that some interesting old pharmacy pots, made between 200 and 300 years ago at Narbonne, Moustiers, and in Italy, have been added to the local museum. Druggists' shops are perhaps more prominent there than pharmacies, probably owing to the fact that Narbonne is the centre of an agricultural and wine-growing district. Naturally trades specialise in many towns, according to the local needs; but, when at Toulouse recently, I failed to gather why the truss-maker is so much in evidence there, though, of course, that town is a great centre for Southern France and Northern Spain.

The Season at Biarritz is an average one, a correspondent informs me. The English visitors are not very numerous, numbering between 1,200 and 1,500 at present. The majority of pharmacists in Biarritz claim to be "English chemists." The cutting of patents—English as well as French—can be judged from the following prices, advertised by a pharmacy near the railway-station, and the list is also interesting as an indication of what is asked for by the English abroad:—

	f. c.	f. c.
Pond's extract	1 25	and 5 60
Harlene (small)	1 25	
Dinneford's magnesia (small)	1 25	
Dinneford's magnesia (large)	3 0	
Hazeline (small)	1 85	
Hazeline (large)	5 60	
Koko	1 25	
Brown's chlorodyne (small)	1 40	
Brand's essence of beef	1 75	
Toilet-lanoline	0 60	
Eno's fruit-salt	3 40	
Beecham's pills	1 30	
Carter's little liver-pills	1 40	
Beetham's glycerine and cucumber	1 25	and 2 15
Homocea	1 25	
Bishop's citrate of magnesia	1 85	
Bishop's citrate of caffeine	1 25	
Keating's insect-powder	0 60	and 1 25

I also noticed Vinolia soap (writes the correspondent) and other sundries. Most pharmacies stock some English specialities, and one, at least, keeps (American and other) photographic sundries. Arcachon (the famous oyster-culture town near Bordeaux) also has only a moderate number of English visitors and residents this winter. A French pharmacist opposite the Grand Hotel there informs me that he stocks as many English patents as can be got through the French Customs, who are a little uncertain; some they pass and some they stop. Those in his show-cases were (generally) the same as on the Biarritz list.

Australasian News.

Chiefly from "The Chemist and Druggist of Australasia" for February, 1899, of which copies may be obtained from the Publisher at 6d. each.

An Incorporated Pharmaceutical Society.—The Pharmaceutical Society of Tasmania has been registered under the Companies Act.

Citronella-cultivation in Queensland.—A syndicate of Moormen have secured from the Queensland Government an extensive tract of land for the cultivation of citronella-grass. They have already made preparations for planting. The industry was very successfully continued for several years in the Gallc district, but it has latterly degenerated.

Pharmaceutical Council as Arbitrators.—In the report of the Council of the Pharmaceutical Society of Tasmania, occurs the following paragraph:—"During the year a dispute arose between Mr. J. W. Moir, one of our members, and Mr. P. J Nicholls, of Richmond, regarding the apprenticeship of the son of the latter to the former, the Council undertook to arbitrate upon the matter in dispute by consent of both parties, and have held several sittings hearing evidence, &c. The arbitation, however, is not yet concluded."

A Poison Hunt.—A mysterious poisoning-case at Yarra caused the Superintendent of the Victorian Police to issue a circular to all police-stations in the colony requesting that every chemist, and every person licensed to sell poisons, should be seen, and a list obtained of the persons to whom arsenic or any of its compounds had been sold during the previous six months. It was reported that 215 chemists and poison-vendors had in that period sold arsenic. Subsequently the police interviewed 514 persons who were concerned in the purchases, either as buyers or witnesses. They satisfied themselves that in none of these instances had the poison been used either criminally or carelessly.

Earlier Closing in Sydney.—The chemists of Sydney are making an earnest effort to limit in some degree their hours of business, both on week-days and Sundays. At a large meeting held in January, a committee was formed with instructions to try to arrange for uniform closing on week-days at 9 or 9 30 P.M. The present hour of closing seems to be in most cases abont 11 P.M Mr. Forster, the Secretary of the Pharmaceutical Society of New South Wales, told the meeting that he had called on 102 out of the 130 chemists in Sydney and suburbs, and in no case had he received "No" for an answer. The question of Sunday closing was left over until after the week-day hours had been arranged. The committee hoped to start a three months' trial of closing at 9 P.M. from March 1.

A South Australian Gold Medal.—Mr. J. White, President of the Pharmaceutical Society of South Australia, instituted a competition three years ago for a gold medal, to be given to the registered apprentice of the Society who should send in the best samples of a series of pharmaceutical preparations which had been specifically named. For the first competition there were four entries, but only one candidate persevered to the finish, and he took the medal, which the Council can award or withhold at their pleasure. Two candidates competed last year and three this year. The preparations to be made in the most recent competition were santonin, ferrum tart., acid. tart., liq. ferri perchlor. fort., and ung. hydrarg. nitratis. An essay incorporating the working notes had to be sent with the samples of the products. The medal was awarded to Mr. Sydney Alexander Cooper, and the other competitors were Mr. Magarey and Mr. Belcher. An extra prize was given to Mr. Magarey by Mr. W. J. Main, President of the Pharmacy Board of South Australia.

A Queensland Prosecution.—The Queensland Pharmacy Act of 1884 is a model one. It makes it illegal "for any person not duly registered as a pharmaceutical chemist under the Act to assume or use the title of pharmaceutical chemist, pharmaceutist, pharmacist, chemist and druggist, dispensing chemist or dispensing druggist, or other words of similar import, to use or exhibit any title, term, or sign which may be construed to mean that he is qualified to perform the duties of a pharmaceutical chemist." Mr. Frank Edgar Norris, an unregistered person, carried on a business at Croydon, which he described as a "Medical Hall and Drug Depôt," and he advertised himself in a local newspaper as the proprietor of this medical hall and drug depôt, and as a "direct importer of drugs and pharmaceutical preparations" Alleging that this description brought Mr. Norris within the terms of the Pharmacy Act, the Pharmacy Board of Queensland commenced an action against him. Croydon is far away in the north of Queensland. Mr. Blake, the Registrar, who went from Brisbane to give evidence, and who seems to have utilised the occasion for a round trip, travelled 4,000 miles, and was absent six weeks on the business. The Magistrate who heard the case was somewhat reluctant to give judgment against Mr. Norris, but the wording of the Act was too strong for him. Justifying himself by the discovery that a resolution of the Pharmacy Board of Queensland to give twenty-four hours' notice to transgressors, before actually proceeding against them, had not been given to Mr. Norris, he refused to award heavy costs. The fine and costs altogether under three informations amounted to 16*l.*

THE IMPERIAL PHARMACOPŒIA.

The papers by Indian authorities on the proposed Colonial and Indian Addendum to the British Pharmacopœia which we recently published demonstrated inappreciation of the Medical Council's efforts in this direction. Briefly, the opinions of our contributors were that many of the Indian drugs proposed to be recognised are not worth it, and that some things which deserve recognition have been ignored. The last number of *The Chemist and Druggist of Australasia* to hand (February) includes a number of papers by Australian authorities, who are equally unanimous in their inappreciation. The Editor of the *C.D.A.* adopts a non-committal attitude, but shows that a goodly proportion of the suggestions made by Queensland and Victoria have already been embodied in the Pharmacopœia. That is one real gain through the Imperial idea. Next, Mr. George Watkins, of Brisbane, an accomplished botanist and good pharmacist, deals with the botany, pharmacy, and therapeutics of the Queensland drugs—nesodaphne, alstonia constricta, and euphorbia pilnlifera. His experience is apparently the most comprehensive obtainable, and yet he says that the demand for these drugs in Australia is limited to two or three practitioners. Notes on the drugs are added by Mr E. Chas. Blake, secretary to the Pharmaceutical Society of Queensland, which confirm Mr. Watkins' views. Mr. H. G. Smith, of the Technological Museum, Sydney, points out that the draft Addendum confuses eucalyptus gum and kino, and Mr. R T. Baker, of the same museum, contributes an illustrated note on nesodaphne, which is *Cinnamomum Oliveri*, Bail. Mr. J. H. Maiden, the well-known Sydney botanist, also communicates observations which will help the Pharmacopœia Committee. A solitary voice from South Australia trusts the Imperial Pharmacopœia will be issued, but that is discounted by Mr. H T. Gonld, of Hobart, who says: "The Addendum is of no value to us. What we tried to do was to get certain drugs of Australian origin used, and to correct errors in the case of some that were used already. We do not want anything else, as we can adapt the provisions of the Pharmacopœia to our climatic and other requirements." It only remains for Hong-Kong to criticise, and we shall be done with the Addendum. We understand that it was proposed to publish it in June. It will do no harm to publish it, bnt the Pharmacopœia Committee may well consider whether more good would not be done by placing it on the shelf for five years. Then an endeavour might be made to get Canada, the West Indies, South Africa, New Zealand, and the whole of the Australian colonies to take an interest in the affair. That could be done by addressing the medical and pharmaceutical associations in the respective countries, as well as Government medical authorities. In its present form the Addendnm lacks utility, is not Imperial, and creates no enthusiasm. Now that this has been determined by the united voice of the colonies and India, it were better to leave the Addendum as an interesting experience.

South African News.

(From our Correspondents.)

Trade-marks.—The T. B. Dunn Company, Rochester, N.Y., U S A., are registering their trade-mark covering sensen cachous. Abram Lyle & Son (Limited), London, are also registering their trade-mark covering "substances used as food" on March 21 for Cape Colony.

A Scotched Fire.—On Sunday evening, February 12, flames were seen to be issuing from the rear of the wholesale store of P. J. Petersen & Co., Cape Town. The fire-brigade was quickly on the spot, and, notwithstanding that a south-easter was raging, the fire was confined to the out-houses in which it originated.

Analyst for Johannesburg.—A correspondent (203/38) writes to inform us "that there is an opening for a yonng, well qualified, analytical chemist in Johannesburg to commence on his own account. He should have a very good diploma, an intimate knowledge of the examination of food and drugs and gold-assaying, and the usual training of a well-qualified analyst. There is at present only one analyst in Johannesburg."

Personalities.—Mr. J. A. Mathew, of Messrs. Heynes, Mathew & Co., Cape Town, has been elected Chairman of the Cape Colony Pharmacy Board, in the place of Mr. W. F. H. Pocock, resigned.—Mr. Walter Joseph Craven, chemist and druggist, formerly of Whitby, Yorkshire, has been licensed to practise as a chemist and druggist in the Cape Colony. Mr. R. G Darroli, one of the oldest chemists in Cape Colony, has returned after a nine-months' sojourn in the Old Country. He was looking remarkably well when he stepped on shore from the *Hawarden Castle*, quite a contrast to the day of departure, when he was so broken down that he had to be almost carried on board.

Thomas Hannah's Bankruptcy.—At Maritzburg, Natal, on February 8, the final meeting of creditors in the estate of Thomas Hannah, chemist, carrying on business in Maritzburg, Ladysmith, Standerton, and Heidelberg, was held, when it was stated that the amount for distribution to concurrent creditors would be half-a-crown in the pound. The same day Hannah was committed for trial on the charge of perjury and fraudulent insolvency, and was released on bail (1,000*l.*). The charges against him were contained in two depositions sworn by the trustee, and in the first of these were nine counts. The principal witnesses were Mr. D'Hotman, acting master of the Supreme Court, and Mr. J. A Miller, accountant. Hannah has reserved his defence.

Pharmacy in the Transvaal.—We have on several occasions during the past year called attention to the imperfect pharmacy law of the South African Republic. We now learn that the Government is investigating the matter, with a view to reform. Meanwhile a modification of the financial arrangement, which will benefit the Government chiefly, has been inaugurated. Hitherto any chemist practising in the Transvaal paid a 10*l.* licence yearly as an "apotheker," and was not obliged to keep books. Since January 1, however, the chemist has been ranked as a trader, so that if his yearly turnover does not exceed 2 500*l.* a licence of 7*l.* 10*s* is payable annually; from 2,500*l.* to 5,000*l.* entails a yearly payment of 10*l*; up to 7 500*l.* 15*l.* per annum, and so on. The chemist must henceforth keep books, in order to show what his yearly turnover amounts to. The drug-trade in the Transvaal look upon this as a hopeful sign of more to follow.

PHARMACEUTICAL SOCIETY OF CAPE COLONY.

The first annual meeting of this Society was held at the Y.M.C.A., Cape Town, on February 9. Only seventeen members were present. The chair was taken by Mr. J. A. Mathew, one of the Vice-Presidents of the Society. The Secretary (Mr. W Fick) submitted his report, in the course of which the objects of the Society were stated, and it was pointed out that it had been of great utility in furthering a spirit of friendship in the trade, but it was hoped that the members would come oftener together, especially for the study of practical subjects. It was also mentioned that the Society had been instrumental in getting Mr. Pocock re-elected a member of the Colonial Pharmacy Board, when doubts existed in the Colonial Secretary's mind as to whether he could be renominated. The legal representatives of the Society had watched three prosecutions against chemists, notably the Tothill prescribing case, the sweet spirit of nitre prosecution, and the proceedings instituted against P. J. Petersen & Co for selling saffron said to have been adulterated. Further, the Society had found employment for fifteen assistants. The finances of the Society were in a satisfactory condition. The total receipts for the year amounted to 85*l.* 1*s*, and the expenditure (consisting chiefly of the subscription to The Chemist and Druggist, which was supplied to all the members) reached 47*l.* 1*s*., leaving a balance of 37*l.* 19*s.* 11*d.* The attention of the members was directed to the fact that Dr. Marloth, consulting chemist to the Society, conducts analyses for members at reduced rates. The Secretary appealed to members for active support in the work of the Society.

Presidential Address.

Mr. Mathew (the Chairman), in the course of his address, referred to the retirement of Mr. Pocock, and asked to have recorded in their minutes a vote of appreciation of Mr. Pocock's earnest work and untiring endeavours in connection with the Society since its inception, and their deep regret at his retirement Although the Society was still in swaddling-clothes, they were proud of its proportions and its satisfactory growth. During the year 71 members had been enrolled, and good interest had been shown in the work. The Executive had met nine times, and had interviewed the Colonial Government on several occasions regarding the iniquitous Pharmacy Bill. Having referred to other matters mentioned in the report, Mr. Mathew advocated loyalty to the Society, which was especially required at present in view of the last two Medical and Pharmacy Bills, which showed that an enemy was trying to cut the ground from under their feet by obnoxious and tyrannical legislation. He urged them to strengthen the hands of the Society, so as to make their existence a force to be reckoned with. Secondly, they should try to conquer the trade jealousy which was too much in evidence in the colony. The old proverb "Live and let live" ought to be their everyday motto. The cutting business now being introduced into their midst entailed a great deal of nnnecessary work and worry with no more pay in the end. They were entitled to a fair and reasonable profit. He advocated wholesome competition, but not ambitious greed, and looked forward to the time when, for mutual protection, they should meet to discuss trade matters. Finally, Mr. Mathew spoke of scientific research, which he hoped the Society would encourage. Occasional papers might be given, and discussions promoted, with a view to interesting the members and to elevate the tone of their rather prosaic meetings. Mr. Mathew also paid a tribute to the Secretary for the manner in which he had discharged his duties.

New Officers

for the ensuing year were then elected as follows:—President, Mr. J. A. Mathew; Vice-Presidents, Messrs. James Jones and F. W. C. Thomas; Secretary, Mr. W. Fick (re-elected); members of the Council, Messrs. Helmore, A. Mathew, C. E. Gardner, M. Tothill, W. Jeffreys, Dr. Marloth, J. S. North, and A. E Tothill. (Dr. Marloth and Mr. A. E. Tothill take the places of Messrs. Harry Evans and H. Carman.)

New Rules.

Mr. M. Tothill proposed the following amendment to the rules, which was seconded by Mr. Thomas, and carried:—

Any member of the Council being absent from three consecutive meetings, his seat shall be considered vacant, and the Council shall have the power to elect another member in his place.

Mr. James Jones proposed that the annual subscription of "Principals" be reduced from two guineas to one, and that Vice-Presidents should not hold office for two consecutive sessions, but be eligible for re-election, both of which were carried.

It was decided that an annual dinner should take place, the arrangements to be left in the hands of the Council. The proceedings then terminated with the usual vote of thanks to the Chairman.

Colonial and Foreign News.

Germany in China.—The German Government has a dispensary in Tsintau, to which Mr. Nebel, a naval apothecary from Wilhelmshaven, has just been appointed.

Treaty between Sweden and Japan.—According to a declaration of the Swedish Government, the commercial treaty concluded between Sweden-Norway and Japan on May 2, 1896 comes into force on July 17 of this year.

Business Change.—The pharmacy in Yokohama hitherto carried on by Mr. J. Schedel has been acquired by Mr. Wilhelm Müller, who at the same time has been retained as an expert on technical-chemistry matters by the German Consulate.

Personal.—Mr. Henry Miles, managing partner of Leeming, Miles & Co., wholesale druggists, Montreal, has been elected Second Vice-President of the local Board of Trade. Mr. Miles is also editor and publisher of the *Montreal Pharmaceutical Journal.*

Another!—The principal industrial and commercial firms of Belgium have decided to send an exploring and research expedition to China. M Jules Duckerts, formerly Belgian Consul-General at Budapest and in Central America, is to be the leader of the expedition, and he left on February 26.

German Chambers of Commerce Abroad.—The Darmstadt Chamber of Commerce has addressed a request to the Imperial Chancellor for the establishment of German Chambers of Commerce abroad, Germany possessing only one—at Brussels—whereas England has twenty-nine, and France and Italy about thirty, in different foreign countries.

A Germano-Russian Commercial Society for the further development of trade between Russia and Germany, with central offices in Moscow and Berlin, is about to be organised. Agents will be appointed in the chief commercial towns of Russia and Germany, who will supply information to commercial travellers and members of the Society.

Commercial Travellers in the Netherlands.—Commercial travellers require a licence in the Netherlands, which costs 15fl. (about 1*l* 5*s*.), and which can be obtained from the Burgomaster at the first place in the Netherlands where they begin their operations. The licence is available for the financial year (May 1 to April 30), and forms can be obtained from the Consul-General for the Netherlands, 4 Coleman Street, E C.

New York Poisoning-case.—As a result of the verdict, given by the coroner's jury in the Adams poisoning-case, Mr. Roland Molineux, son of the general of that name, has been arrested on a charge of murder, and is now an inmate of the Tombs Prison, in New York. The case has apparently provoked imitation, for a Brooklyn girl has received strychnine in a present of sweets from a jealous companion.

"Benzoinated Lard."—At the New York Court on February 24, the South Brooklyn Chemical Company brought an action against Messrs. Lehn & Fink for selling a preparation called "benzoinated lard" under a label purporting to be that of the South Brooklyn Chemical Company. The commodity, claimed the plaintiffs, was an imitation of the genuine article which they manufacture. The case was dismissed for lack of evidence.

Cinchona-bark Wanted for India.—Major D. Prain, Superintendent of the Calcutta Botanic Gardens and Supervisor of the Government Cinchona-gardens, has lately been at the Nilgiris and Travancore, inquiring if bark could be purchased from the planters. He crossed over from Tuticorin for two or three days to Ceylon on the same mission. He strongly advised Ceylon planters to use, not hybrid, but pure officinalis seed for any nurseries they may form.

Soap-makers Combine.—Some of the leading soap-manufacturers of the United States had a meeting at Buffalo, on February 24, for the purpose of forming one big corporation. Among the firms represented were W. & H. Walker Soap Company and J. W. Wolfe & Co., Pittsburg; N. K Fairbanks, Chicago; Peet Brothers, Kansas City; Lipps & Co., Baltimore; Colgate & Co., New York; John Reardon & Sons, Boston; and Everton Soap Company, Philadelphia. Particulars relating to the projects of the new company have not yet transpired.

American Mag. Carb.—The American Magnesia Company, of Norristown, Pa., has lately completed an extensive plant for producing carbonate of magnesia by an improved process. The daily output when in full operation is estimated at 25,000 lbs., and as the new make is reported to be selling freely in America it is expected that no difficulty will be found in disposing of the output. The selling agency of the company is in the hands of Schoellkopf, Hartford & Maclagan (Limited), who, it may have been noticed, are advertising the product in this journal.

A New Medicinal Confection.—A young lady in a small Indiana town gave a party recently, and served to her guests that popular delicacy known in the States as the "popcorn ball." Unfortunately, however, the contents of a large bottle of Dr. somebody's liver-pills had found their way into the confection, and as the guests were hungry and ate freely, the result was rather startling. The hostess says some spiteful enemy must have put the medicine into the corn balls, for the bottle of pills was always kept in a special medicine-chest. The *Pharmaceutical Era*, to whom we are obliged for this item, thinks the idea of medicinal popcorns is too good to be lost sight of.

Warner's in Flames.—The wholesale or city department of Messrs. W. R. Warner & Co., manufacturing chemists, Philadelphia, was burnt out on February 16. The firm have two places in the Quaker City, the older being on Market Street, which was formerly a retail pharmacy, and has gradually developed into offices, packing-rooms, and warehouse, from which Mr. Wm. R Warner and his son direct the business. This was the part attacked. The other establishment is the factory in Wallace and Broad Streets, where all preparations are produced, and from which the export trade is carried on. Adjoining the Market Street premises is a laundry, which caught fire on the evening of February 16. This quickly spread to Warner's and other buildings, and, in spite of the efforts of the firemen, property to the extent of half-a-million dollars was destroyed. The stock of the drug-warehouse added to the fierceness of the flames, and a wall of the Warner building fell, killing three firemen. The loss to the firm is in the neighbourhood of $100,000.

Pharmacy in Manila.—An American pharmacist who has been with the American Army in the Philippines relates his experiences of pharmacy in Manila in a letter published in the *San Francisco and Pacific Druggist.* There are quite a number of pharmacies run by Spaniards and Filipinos, but the majority of them are small places with a meagre stock of actual necessities. Laboratory work or manufacturing of any kind is practically unknown, the simplest preparations being purchased in Hong-Kong or London. The leading drug-store of the town, owned by Messrs. A. S. Watson & Co., of London and Hong-Kong, is situated in the main street, called the Escolta. The store is run by three Englishmen—a manager and two assistants—who have as helps a horde of natives, who the writer describes as stumbling over each other and not accomplishing anything. The store is dark in the rear, and the bottles on the shelves are piled one in front of the other with no attempt at alphabetical or other definite arrangements. The preparations of Burroughs, Wellcome & Co. are in full stock. The prescription-department looks as if Dewey had taken a shot at it and the work was exceedingly slow. The stock of chemicals is good enough, Merck's being pretty much in evidence; but American goods, proprietary or otherwise, are practically unknown. Belladonna plasters are not stocked, but Allcock's can be obtained. Scott's is the only emulsion to be found, and the correspondent did not think there were 2 gals. of cod-liver oil on the islands. The store had an analytical balance and a few pieces of apparatus which have never been used. The retort stand and rings were as fresh as the day they were painted, and the chronicler has never seen a filter-paper in operation.

Pharmaceutical Society of Ireland.

THE monthly meeting of the Council was held at 67 Lower Mount Street, Dublin, on March 1. Present: Mr. R. J. Downes (President), Messrs. G D. Beggs (Vice-President), J. J. Bernard, J. Edgar Connor, George H. Grindley, Patrick Kelly, J. Michie, Johnston Montgomery, Charles R C. Tichborne, LL.D., Dr. J. A. Walsh, and W. F. Wells, jun.

The President and the Pharmaceutical Society of Great Britain.

The Chairman said: Before we go into the business of the agenda paper there is a matter to which I would like to refer. Since we last met I have ventured to address an open letter to the Council and members of the Pharmaceutical Society of Great Britain, which has been published in the three trade journals. When doing so I felt, as I still feel, that it required very urgent necessity to justify me in doing so, and I bring the matter before you now for your judgment, as it is your duty to repudiate my action if you think I ought not to have done so. But I think the answer of the Chief Secretary to Dr. Tanner is a full justification of my act. That answer concedes the correctness of our contention that there is a scandal which requires to be dealt with, and that it must be dealt with as a question affecting the United Kingdom, and I believe it is equally a pledge that as soon as the way is found the Government will deal with it as such. The General Medical Council have several amendments that they desire to their Acts, but they keep this question of the abuse of the Companies Act separate and distinct. We desire several amendments to our own Acts, but we think it well to let them bide till this first question is settled with the help of the Government. But the Council of the Pharmaceutical Society of Great Britain are on such exceptionally good terms with themselves and the Lord Chancellor that they are quite prepared to go inside and give everybody else the shove out. I have no desire to interfere with their suggestions for legislation on their own behalf, but I do think that when they decide on an independent course they might find some indirect means of communicating their decision to this Society. For my part I have been careful to address personal letters to their President when I found we were discussing questions in which our action might affect them, or on which we might be influenced by their views of expediency, so that we might not commit this Society to any action of apparent antagonism. It is far from my object to promote or provoke such a position. But I think it is our duty to remonstrate with and appeal to our sister, notwithstanding her superior intellectuality and influence, when we believe she is adopting a course which is prejudicial to the interests of both; nor is it unbecoming such dignity as we may claim to protest against a policy of selfishness and provincialism on a question admittedly of importance not only to the chemists and the druggists of the United Kingdom, but to the upholding of the laws of the realm as they were expected to apply. In concluding I would like to express the pleasure I have felt at the attitude of the Press, and my gratification that there has been no attempt to make mischief or to aggravate the situation. It is for you, gentlemen, to repudiate what I have done if you think it is improper, otherwise I take it for granted that you approve of it.

The Chairman's action received the tacit approval of the meeting.

Reduction of Fines under the Pharmacy Act.

The Registrar (Mr. Ferrall) read a letter from the Under-Secretary, Dublin Castle, transmitting copy of a memorial from John O'Meara shopkeeper, of Killimor, co. Galway, to the Lord-Lieutenant, praying for a reduction of the fine of 5*l*, imposed upon him for breach of the Pharmacy Act. The memorial stated that O'Meara was summoned before the Magistrates at Killimor Petty Sessions, on January 7, on three separate charges:—(1) For keeping open shop for the sale of carbolic acid; (2) for having sold carbolic acid; (3) for having sold carbolic acid without having the bottle containing it distinctly labelled. The memorialist proceeded to say that he was fined in No. 1 the sum of 5*l*.; that the summons in No 2 was withdrawn and the summons in No 3 dismissed; that he admitted the fact of having sold said poison, but was altogether unaware that he was in any way violating the law, as carbolic acid was not one of the scheduled poisons in the Pharmacy Act (Ireland), 1875, but was by an Order of her Majesty's Privy Council deemed to be a poison within the meaning of the said Act; that the Magistrates presiding at the Petty Sessions expressed their regret that, having regard to the decision of the Queen's Bench in the case of the Queen (McGann) *v.* Kelly, they were constrained to fine memorialist the sum of 5*l*. and expressed themselves strongly in favour of a reduction of the fine; and that memorialist had no intention of violating the law, and no idea that he was so doing.

The Registrar said that in the third charge O'Meara was fined 1*d*., with 1*s*. costs.

The President: It was not dismissed as he states here.

Mr. Wells: The Magistrates showed their appreciation of the protection of the public by fining him 1*d*. for not marking it "Poison."

The President stated that the Pharmaceutical Society incurred an expense of one guinea for analysis.

Mr. Wells said it was rather hard on them to have to undergo these costs for analysis. The Lord-Lieutenant would reduce the penalty to 1*l*. or something like that, and the Society would be money out of pocket. He was bound by precedent to do. In every case in which a memorial had been addressed to the Lord-Lieutenant the penalty had been reduced

Dr. Tichborne thought the Society should ask for an interview with the Lord-Lieutenant, and put the matter strongly before him. Mr Wells thought it was time to give up these prosecutions altogether. Mr. Kelly suggested that a proper time to go to the Lord-Lieutenant would be when they prosecuted in a case themselves, and were 10*l* or 15*l* out of pocket. Mr. Wells said there was no place outside Dublin where they could get a magistrate to convict with a willing mind. The only place where they ever got a fair hearing was in the Dublin Police Courts Mr. Bernard thought they should strive to have the grievance exposed in the House of Commons.

The President: We may gain a point if we ask a member of the House of Commons to ask for a return of the cases in which the Lord-Lieutenant has been memorialised and in which he has reduced the penalty.

Dr. Tichborne: Write a strong letter to the Lord-Lieutenant in reply to that communication, making the best case you can; and also act on the suggestion of Mr. Bernard, and get a question asked in the House of Commons.

Mr. Wells: If a man sells ether he is fined 5*l*, and there is no mitigation of that because it touches the Excise.

Mr. Bernard: The Lord Lieutenant is not to blame when the Magistrates sign in favour of the mitigation of the penalty.

The President: I would point out the discrepancy between the memorial and our own information as to the fining for not labelling.

Mr. Johnston Montgomery: The Council should protest against the reduction of this fine.

A letter was received from Mr. W. B. Galway, solicitor, Belfast, remitting two-thirds of fines imposed upon James Hogg, David Manson, and Hugh McIntyre for breaches of the Pharmacy Act.

Preliminary Certificates Accepted by the British Society not always Good Enough.

A letter was received from Mr. B. T. Brayshay, submitting Preliminary registration certificate from the Pharmaceutical Society of Great Britain, for acceptance in lieu of the Preliminary examination of the Pharmaceutical Society of Ireland. It appeared that Mr. Brayshay had passed the Preliminary examination of the Pharmaceutical Society of Great Britain, his certificate being from the College of Preceptors for passing the examination of the third division second class.

Dr. Tichborne said it was not to be presumed that their Society would follow every certificate that the Pharmaceutical Society of Great Britain would accept.

The President said this certificate of the Preceptors

examination was not accepted by the General Medical Council.

Dr. Walsh considered it would be better to take a practical, rather than a technical, view of the matter. Many students went to Edinburgh because Intermediate certificates were not accepted in Ireland, and then they heard complaints about students spending their money elsewhere. This student had been educated in England, and chance had brought him to Ireland. If they accepted him, he would go through their curriculum, if not he would go back to England. They could not expect a young fellow in business to go back and read up his Latin, French, and things like that all over again.

Mr. Wells said there was another way of looking at the matter. A student who had passed one of the Intermediate examinations in Ireland, but who knew that he had not passed in the necessary subjects to qualify him for registration in Ireland, went to England and got placed on the register of the English Society, and then asked their Society to accept him as being on the English register. What that would lead to was simply this—that a young man who did not know French and other subjects that their Society now required had only to read enough to get registered in England in order to be subsequently registered in Ireland. Those passed by their Society had to go through a much more difficult examination.

Mr. Beggs said they were bound to accept a man who passed the examination of the English Society. But they were not bound to accept a man whom the English Society accepted upon some other examination.

The President said if the General Medical Council accepted the examination of the College of Preceptors, their Society would be bound to accept it. But this was not accepted by the General Medical Council.

On the motion of Mr. Bernard, seconded by Mr. Wells, the following resolution was unanimously agreed to:—

That the registration certificate presented by Mr. Brayshay be not accepted, as he has not passed the Preliminary examination of the Pharmaceutical Society of Great Britain, and his certificate from the College of Preceptors being of a lower class than that hitherto accepted by the General Medical Council.

[The Regulation, as published in the Calendar of the Pharmaceutical Society of Ireland, reads as follows:—"The Preliminary or Matriculation examination of the College of Surgeons, or such other examination as is accepted by the General Medical Council as equivalent to it, and the Preliminary examination of the Pharmaceutical Society of Great Britain, shall be accepted instead of the Preliminary examination of this Society, such examination to be passed at least one year before the candidate presents himself for the licence of this Society. The usual fee of two guineas to be paid."]

The Pharmacopœia Committee.

On the motion of Mr Bernard, seconded by Mr. Connor, Dr. M. R. Whitla, M.P.S.I., Mr Montgomery, and Mr. Doran were added to the Pharmacopœia Commitee.

Thanks

were voted to the Missouri Botanical Garden for a copy of their annual report, and to the Pharmaceutical Society of Great Britain for a copy of their Calendar, 1899.

Alteration of Regulation.

On the motion of Mr. Beggs, seconded by Mr. Wells, it was resolved—

That School of Chemistry Regulation VI. (*vide* Calendar page 87) be amended to read as follows:—"That no pupil be allowed to attend the classes until he has paid at least one-half of the fees, and shall not enter on the second half until the remainder of the fee has been paid, and the whole course to be completed within six months."

The Irish Pharmacists' Assistants' Association.

Attention was drawn to the title "Irish Pharmacists' Association," which appeared on a dance programme and also on the tickets recently issued by the Irish Pharmacists' Assistants' Association; and it was also stated that this title with the omission of the word "Assistants'" frequently appeared in print The Registrar was instructed to write to the Hon. Secretary of the Association requesting an explanation of the use of the title referred to, and pointing out that the Society considered it misleading.

The Irish Licence Examination.

By Wm. Geo. Stratton, Pharmaceutical Chemist.

About eighteen months ago I found myself in Belfast with an indefinite period of enforced idleness before me. Having some years previously passed the Preliminary examination of the Pharmacentical Society of Ireland, I resolved to embrace the opportunity of becoming a full-fledged L.P.S.I.

There are only five schools recognised by the Irish Society at which a candidate can attend the full curriculum now in force. Two of these schools are in Dublin, two in Belfast, and the fifth is the school of the Pharmaceutical Society of Great Britain. The Belfast schools are the School of the Working-men's Institute and the Belfast School of Applied Chemistry. I found at the latter institution that a class was preparing for the examination, and I entered for a six-months' course in practical chemistry and a three-months' course in botany and materia medica. My attendance was very irregular, as I merely wanted to obtain the 100-hours' certificate required by the Irish Society. I was much impressed by the absence of the bustle and pressure which characterise the London schools of pharmacy. There was none of the feverish anxiety so noticeable among "Minor" students. All looked forward to passing as a matter of course.

Having duly attended the lectures, and spent the requisite number of hours at practical chemistry, I made application to the Society for admission to the examination. The application had to be sent to the Registrar fourteen days before the date of examination, and had to be accompanied by—

A certificate of birth.

The Preliminary certificate.

A certificate of having attended a three-months' course in practical chemistry, and of having actually worked at the bench for 100 hours.

A certificate of having attended a course in botany and materia medica.

A cheque for five gnineas.

A statutory declaration of having served four years in the sole employment of a pharmaceutical chemist * keeping open shop. This had to be made both by myself and a previous employer.

A few days after notifying my intention of presenting myself for examination I got a communication from the Registrar asking me had I attended a three-months' course of twenty lectures, of one hour each, in both botany and materia medica? I replied that I was unable to find anywhere in the published regulations for candidates any statement as to the length of course of lectures, or the duration of each lecture, and I submitted that I had fully complied with all the regulations in force. Shortly afterwards I got a summons to present myself for examination. I noticed, however, that at the earliest opportunity the regulations were amended, so that after next July the course in botany and materia medica will comprise forty lectures of one hour each—twenty in each subject.

The examination extends over three days. On the first day fourteen other candidates and myself presented ourselves at the Society's House in Lower Mount Street, Dublin. Our reception was in marked contrast to that which the Pharmaceutical Society of Great Britain thinks fit to extend to candidates for its favours. We were immediately admitted and conducted to a commodious waiting-room, from which shortly afterwards we were conducted to the examination-hall, where our names were called over, and to each was assigned a desk which he was to occupy throughout the written portions of the examination. The subjects for the first day were botany and materia medica. A paper containing three questions in the former and four in the latter subject was set, and we got two and a half hours in which to do it. We had to return in the evening for a *viva-voce* examination in the same subjects. Mr Jno. Smith was the examiner. It was evident that a thorough knowledge of the Pharmacopœia was necessary for success. I was shown

* The statutory declaration of a chemist and druggist of Great Britain will also be accepted.

cinchona-bark, asked its characters, what kind was official, what preparations it entered into, how prepared, strength, and dose. *Strophanthus.*—Preparations, their composition, mode of preparation, strength, and dose and so on through a number of specimens The examiner seemed to pay more attention to practical than to theoretical knowledge, names of natural orders and habitats being at a discount. A large number of botanical specimens were shown and a description required. After a few questions on the formation, storage, and use of starch, I was let go.

The second day was devoted to chemistry. In the morning a paper containing eight questions was set, six of which might be attempted.

It was evident from the expressions on the countenances of many of the candidates that the paper was a little beyond their capabilities. I have not mentioned any of the questions set in the written portions of the examination as the papers have already been published. While engaged on the papers the candidates were called up one by one for the oral examination. Mr. Forbes Watson was the examiner. Sir Geo. Duffey, the visitor from the Privy Council, was also present. My "oral" consisted in recognising a large lump of silver nitrate and a few crystals of ferrocyanide of potassium, and explaining the effects of heat in decomposing these substances. Candidates for this examination would do well to study the physical characteristics of salts, as much stress seems to be laid on the candidates' knowledge in this respect.

In the evening we presented ourselves for the practical portion of the chemical examination. My work consisted of recognising a salt, an alkaloid, an organic acid, and performing a volumetric determination. The salt was potassium nitrate, the alkaloid morphia; the organic acid proved to be citric, and the volumetric work consisted of finding how many grammes of sodium chloride were present in a litre of a given solution. This came out as 25 grammes. The time allowed for the practical work was an hour and a half. As the candidate had to clean his apparatus both before and after use and also write out a report of the work done, the time allowed was fully occupied.

The last day was devoted to practical pharmacy. In the absence of the usual examiner (Dr. M. R. Whitla), Mr. Jas. Guiler conducted the examination. This gentleman proved an ideal examiner. While leaving no weak spot unprobed, he took special care to bring out each candidate's strong points. As on previous days, the examination consisted of a written paper, a *viva-voce*, and practical work. Here, again, much stress was laid on "spotting." Tinctures, extracts, syrups, powders, &c., had to be recognised by their appearance. If a candidate failed to recognise a preparation, it was laid aside, and another was presented. If recognised, he was still further questioned as to its strength, mode of preparation, composition, and dose. Prescription-reading and posology were also included in this day's work.

The evening was occupied with dispensing. I got the following, and was allowed an hour and a half in which to do it:—

	Quin. sulph.	gr. xxiv.
	Magnes. sulph.	℥j.
	Pulv. tragac.	gr. xv.
	Mag. carb.	ʒij.
	Tr card. co.	℥ss.
	Aq. ad	℥xij.
M.	Ft. mist.	

Cpt. cochl. amp. duo primo mane. p.p.a.

	Emuls. ol. ricini	℥ij.
Ft. haust. Sumpt. statim.		
	Hyd. c. cret.	gr. j.
	Pulv. rhei	gr. ij
	Pulv. sodii bicarb.	gr. ij.
Ft. pulv. Mitte xij.		

Cpt. tertiis hor. in lacte recent.

Here, again, everything had to be washed both before and after work.

The time allowed might advantageously be extended to three hours, and a practical knowledge of making B.P. galenicals might also be introduced.

Next morning the names of the successful candidates were posted on a notice board in the hall of the Society's house, and I found myself among the fortunate ones.

A few remarks of what seemed to me the weak points of the examination may not be amiss. The practical chemistry is weak, especially as the examination confers the title of pharmaceutical chemist. Candidates should be expected to separate mixtures of at least two salts, and also show a practical knowledge of the use of the chemical-balance. There was no such instrument in the examination-room, and candidates can and do pass the examination without possessing any acquaintance with it.

Opinions differ as to the advisability of requiring candidates to "spot" chemical substances. Every pharmacist with whom I have come in contact in business has strongly deprecated such a proceeding. The Irish Society's late examiner in chemistry (Mr. A. L. Doran) is said to have felt so strongly on this point that he resigned the examinership sooner than ask candidates to recognise salts by looking at them A practice which is to be condemned if carried on behind the counter should certainly not receive official sanction in the examination-room.

The same remark applies to the custom of requiring candidates to recognise tinctures and other galenicals by appearance, taste, and smell, which prevails in the practical-pharmacy portion of the examination. If an assistant in an English pharmacy were detected doing what a candidate is required to do at the Irish examination he would run a risk of summary dismissal.

Another point to which attention might be directed is the quality of the ink used by the officials when signing the diplomas. I have seen some of these only three or four years old in which the names of the President and the Vice-President were almost illegible.

In conclusion, I may say that the examination as it is conducted is a better test of a candidate's knowledge than the Minor, as there is less chance of a thoroughly-prepared candidate being rejected. The tone of the examination is also higher. Candidates are made to feel that they are entering upon an honourable calling.

Among the unsuccessful there is a marked absence of that bitterness towards the examiners and the Society which, unfortunately, too often finds voice among English candidates, unsuccessful or otherwise.

The following table shows the method of marking. It is a copy of an extract from the report of the examiners to the Council. The upper row of figures shows the maximum, and the lower the minimum, number of marks necessary for a pass in each subject. It will be observed that the percentage required for a pass (55 per cent) is slightly higher than at the Minor.

Extract from Report of Examiners for the Pharmaceutical Licence.

Name	Botany	Materia Medica	Total	Chemistry			Pharmacy				Grand Total	Judgment
				Theoretical	Practical	Total	Compounding	Prescription-reading and B.P.	Paper	Total		
	40	60	100	50	50	100	30	40	30	100	300	
	16	24	40	20	20	40	13½	18	13½	45	165	

The candidate must make a total of at least 165 marks on the whole examination in order to pass.

The Spectacle-makers' Company's Second Examination.

THE second of the optical examinations of this Company was held on March 1, 2, and 3, at the Northampton Institute. The examiners were the same as before, with the exception that Mr. Paxton, the examiner in spectacle-making, was assisted by Mr. W. A. Dixey and Mr. A. A. Wood The Master (Mr. W. H. E. Thornthwaite) and Dr. H. T. Maw acted as superintendents. There were altogether 110 candidates. The written portion of the examination took place on Thursday. Three hours was allowed in which to answer the following questions:—

1. What are the essential optical differences between flint glass and crown glass? What other differences are there between them? Why is it necessary to use both kinds in optical factories?

2. Describe the optical properties of Canada balsam.

3. A narrow beam of sunlight entering by a small round aperture in a shutter is focussed upon a white card by means of a large bi-convex lens (of, say, 8" focal length), through the middle of which the light passes. Assuming that a distinct image has been formed at the full focal distance, what will be the effect on the image if (separately) the following things are done:—

(*a*) Shifting the lens sideways to the right so that the light passes through the lens near its margin.

(*b*) Tilting the lens obliquely, the light still passing through the middle.

(*c*) Changing the round aperture by substituting a square hole.

4. Enumerate the different shapes of simple (spherical) lenses which exist. Classify your list under two heads:—

(*a*) Those in which the distance between the principal focus and the nearest face of the lens is the same for light passing in either direction through the lens, and

(*b*) Those in which the distance for light passing only one way through the lens is different from that for light passing through the other way.

5. When long-sighted persons want to read print they are often observed to pull their spectacles down their nose, increasing the distances of the lenses from the eye. On the other hand, short-sighted persons habitually push their spectacles close to the eye. Explain in each case why they do so.

6. Formerly lenses were numbered according to their focal lengths. The modern system is to number them in dioptres. The change would not have been made unless there was some advantage to be gained. What are the advantages of the modern system of numbering?

7. Explain the principles on which Snellen and Jaeger's test-types are based. What relation do the reading-types bear to distant ones?

8. A prescription is given to make up as follows:—

R	L
+ 3·5 D.S.	+ 2·75 D.S.
− 2·25 D.S. axis 30.	− 4·5 D.C. axis 20.

Show in what different ways the glasses could be made, and give reasons for your preference.

9. What are the advantages and disadvantages of periscopic glasses? A person requires a glass of

+ 4 D.S.
+ 2 D.C. axis horizontal, in periscopic form.

How would you make it?

10. What do you understand by the terms "Prism dioptres and "Prismatic effect"?

A prismatic effect of 1° deviation is required on a 5 D.S. lens How much must it be decentred?

11. To a + 8 D.S. lens I add another lens the power of which is unknown. I find two focal distances on the same side—viz., 114 m/m and 154 m/m. What is the power of the lens?

12. Explain precisely what is meant by spasm of accommodation. State how you would recognise such a case, and give your reason for referring it to an oculist.

Ferratin.—A Dr. B—— was fined some time ago by the Criminal Court of Graudenz for praising publicly ferratin (assumed to be a secret remedy) contrary to the West Prussian police regulations of July 16, 1892. Against this judgment Dr. B—— appealed to the Supreme Court on the ground that ferratin had been praised, not as a curative, but as a strengthening medicine. The German Supreme Court has now quashed the previous judgment, and referred the case back to the Court of Appeal, where experts will be called to give their opinion as to whether ferratin is really a medicine or not.

Aberdeen School of Pharmacy.

PHARMACEUTICAL education is flourishing in the granite city. The Aberdeen Pharmaceutical Association, the oldest body of the kind in the United Kingdom, has always, as far as possible, provided means for the assistants and apprentices of its members acquiring the instruction necessary to enable them to qualify for the examinations. Formerly this was done by maintaining a laboratory and museum, and conducting evening classes, but at the annual meeting of the Association held in March, 1898, it was resolved to establish a regular School of Pharmacy for Aberdeen and the North, for day and evening students, if it was found that it would be likely to get sufficient support. The whole matter was entrusted to a committee consisting of Messrs. James Clark (President), John Cruickshank (Secretary), William Giles, and ex-Bailie Paterson (William Paterson & Sons). To the last-named pharmacist belongs the principal share of securing the permanent housing of the school in Robert Gordon's College, as by his repeated representations to the governors they agreed to take it under their care provided the Association was prepared to pay half the initial cost of the structural alterations at the college necessary for the accommodation of the new department, and also to guarantee the teacher's salary. This the Association has found no difficulty in doing, and a very well-equipped school of pharmacy is the result, for which there will always be a good reserve of students in local pharmacies



Robert Gordon's College.



The Chemical Laboratory.

When a *C. & D.* representative visited the school lately, it was in full working order; nine of the benches were occupied by Minor students, and twenty-five were attending the evening lectures. The chemical laboratory, balance-room, dispensing and pharmacy departments are all on one floor, and above that are the lecture-room and museum, the latter well stocked with good specimens. The laboratory is a lofty and well-lighted room, beautifully fitted and well equipped with common-sense appliances, all specially adapted to the needs of the pharmacy-student. The York Glass recess-labelled reagent-bottles (after York Place) greatly enhance the bright and tidy appearance; the bottles



The Pharmaceutical Laboratory.

and jars of the dispensing-counter are also in this style. The balance-room is a model of compactness, exceedingly well supplied, and each of the seven or eight instruments has its own firm table. The whole of the school is well lighted by electricity. Mr. Hugh E Ellis, Ph.C., was appointed teacher at the initiation of the new school, and has already earned the reputation of being a careful and conscientious teacher The study of pharmacy is thus established on a distinctly substantial basis in the city of "Bon-accord." The college itself was founded in 1750, and the handsome granite buildings are situated in finely laid-out grounds.

The results at the January examinations showed 40 per cent. of passes at their first attempt—29 being the percentage in the whole examination. This must be considered to be highly satisfactory, when it is remembered that it was Mr. Ellis's first session in a new sphere and in a new school which was only got into shape while the session was in progress.

Liquid Extract of Belladonna.

An Improved Method for the Estimation of its Alkaloids.

By Edwin Dowzard, F.C.S.

In the standardisation of potent preparations such as liquid extract of belladonna, it should be the aim to determine the exact proportion of alkaloids present, and therefore a method should be selected which gives the highest results.

The process described in the B.P. not only gives a low yield, but is objectionable because of the formation of an obstinate emulsion which frequently requires two days to separate; further on, a piece of apparatus is described which will separate most of these unpleasant features of alkaloidal assays.

As atropine is soluble in water to the extent of about 1 in 400, it will be seen that a method in which an aqueous solution only occurs once is preferable to one in which it occurs twice, as in the B.P. process.

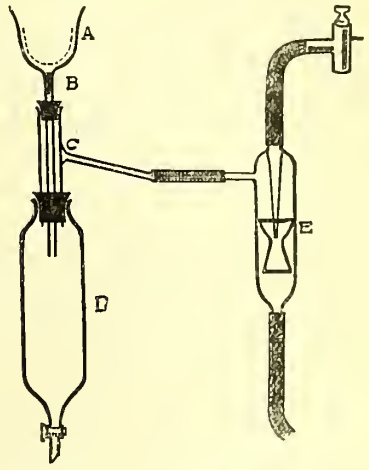
The following method is the outcome of experiments which had for their end a method which would be free from many objections attached to the B.P. process. Although the method proposed is not an ideal one, yet I think that all who try it will find it a marked improvement on the official process.

Twenty-five grams of silver sand is mixed with 10 c.c. of the sample in a porcelain basin (capacity about 120 c.c.), which is then placed over a beaker of boiling water (care must be taken that the contents of the basin do not spurt); the mixture should be stirred until it has the appearance of moist sugar; the heating is continued for about eight minutes longer, when the residue is rubbed with a small pestle to reduce any lumps which may have been formed; it is then transferred to a stoppered cylinder (capacity about 100 c.c.). There is usually a thin film of extractive left in the basin, which may be removed by rubbing a small quantity of sand round the sides with the forefinger; 50 c.c. of the following mixture is now introduced into the cylinder:—

Chloroform	50 c.c.
Alcohol (absolute)	7 c.c.
Ammonia (·880)	1 c.c.

and the contents agitated for a few minutes every hour during seven hours (the chloroformic solution separates completely and clearly in about three minutes after shaking).

As much as possible of the clear liquid is poured into an accurate measuring-cylinder, and the volume noted; the amount usually obtained is about 43 c.c. The alkaloids are extracted from the chloroformic solution by three treatments with 4 per cent. sulphuric acid; the B.P. process is then followed. The acid solution is usually emulsified. The application of a gentle heat and allowing it to stand for one hour generally effect a clear separation. If, however, this fails, the following arrangement will be found useful.



A, Thistle-headed funnel. B, Packing of lint. C, Top portion of fractional-distillation flask. D, Separator. E, Filter-pump. A small circular piece of lint is placed in cup of funnel (represented by dotted lines).

I have tried this method several times side by side with the B.P. process, and in all cases the former has given higher results than the latter.

The following figures will illustrate this: they were obtained with the liquid extract before standardisation:—

B.P. Process.—10 c.c. = ·1234 gramme alkaloid. 100 c.c. contain 1·234 gramme of alkaloid.

Improved Process.—10 c.c. = 50 c.c. solvent. 43·5 c.c. solvent taken. $\frac{\cdot 11193 \times 50}{43 \cdot 5} = \cdot 1286$. 100 c.c. contains 1·286 gramme of alkaloid.

Waterproof Clothing.—Arab clothing made from wool is waterproof but perfectly permeable to air. Dr. Berthier has come to the conclusion that this is because the animal fat is not removed from the wool. He has therefore devised a process for making European wool clothing waterproof, which consists simply of dipping the cloth in a 1 to 2½ per cent. solution of wool-fat in petroleum spirit, wringing it out and drying.

The Winter Session.

Chemical Society.

Absorbing interest was not exactly the tone of the meeting held in Burlington House last week (March 2). The gathering, presided over by Professor Dewar, was small, but included five pharmacists, and as three of them were reporting, there was more to them behind bromomethylfurfuraldehyde and other complicated molecules than generally falls to the lot of mere Major men.

A Bevy of Fair Maidens

from Newnham graced the back bench. Miss Mildred Gostling, B.Sc., was one of them and she had been assisting Mr. H. J. H. Fenton, M.A., with his research on the long-named article aforesaid. Mr. Fenton told the meeting all about it. He and Miss Gostling have previously noticed when some carbohydrates (*e.g.*, inulin and cane-sugar) are treated with ethereal solution of hydrogen bromide a purple solution is produced. They tried to separate the purple body, after satisfying themselves that only ketohexoses yield it. They got it in beautiful yellow crystals when levulose was the carbohydrate, but cane-sugar refused to give the crystals, although it did when the purple solution was sown with the crystals from levulose. It crystallised beautifully from petroleum ether, and its formula was proved to be $C_6H_5BrO_2$. It dissolves unchanged in alcohol, but is hydrolysed by water. They found its constitution to be that of bromomethylfurfuraldehyde. Mr. Fenton showed a number of interesting colour-reactions, including one with the sulphurous-acid derivative, which gives a beautiful green colour in presence of organic acids, so that it may be regarded as a test for these acids. Mr Fenton rejected the idea that the substance was a quinonoid body; and Professor Armstrong, whose theory is that coloured substances are such bodies and nothing else, said, to the accompaniment of a laugh from the Fellows, that Miss Gostling and Mr. Fenton were clever enough to get it colourless. Besides compliments, this was practically all the discussion.

Professor Dunstan

then had the platform while he told the meeting about another glaring instance of German-poaching upon his preserves. He and Mr. Ernest Goulding, B.Sc., have long been studying the reaction of alkyl iodides with hydroxylamine, and they have recorded certain results, which cannot usefully be dealt with in brief space. Lately Hantzsch and Hillard have gone over the same ground, and their conclusions do not altogether agree with Dunstan and Goulding's. After telling what he and his colleague have done recently, Professor Dunstan took up Hantzsch and Hillard's points, one by one, and showed that they are imperfectly acquainted with the subject and jump to conclusions. This gave Professor Armstrong a polemical opportunity, which he took briskly. He sympathised with the English workers, and said the work of certain German schools should never be accepted unless one had good reason to believe it to be true. Infinite injury was being done to science by German chemists who published undigested and preconceived results, much of it being mere ionic twaddle. This and much more that Professor Armstrong said on the same line was endorsed by Mr. C. E Groves; and the President also noted how continental and some English workers deliberately overlook already-recorded experiments.

Zest

was added to these amusing recreations by a communication on $\alpha\alpha'$-dibromocamphorsulphonic acid, by Dr. Arthur Lapworth, the School of Pharmacy demonstrator. It was, in a sense, a striking example of how far students of pharmacy may get nowadays into mystic depths. Here was one of their preceptors telling a Burlington House audience how, by heating ammonium α-bromocamphorsulphonate with bromine and water, dibromocamphorsulphonic acid is produced, which forms soluble and crystallisable salts. By making $\alpha\alpha'$-dibromocamphorsulphonic chloride, and by heating it, it loses sulphur dioxide, and yields $\alpha\alpha'\pi$-tribromocamphor. It was pretty to see how the young doctor of science ingratiated the meeting into these mystic molecules; and when Dr. Morley Foster, another young camphor-chemist, tried to show that there is infinite difference between alpha-alpha-dash-pie and alpha-beta-pie when served with dibromocamphorsulphonic sauce, the Fellows quite enjoyed it. Whereupon Dr. Lapworth, by a dexterous curve of the chalk, upset the Fosterian table and carried off the honours.

A Dalton Daguerreotype.

Professor Dewar reminded the Fellows that the next meeting was the last ordinary one at which he would preside. He thanked the Society for its behaviour towards him in the chair, and said that he wished to give the Society something before he retired. He had a daguerreotype of Dalton, the only one in existence, which he proposed to present to the Society. Cheers and adjournment.

Society of Chemical Industry.

At the meeting of the Manchester Section, held on March 3, Mr. Geo. E. Davis communicated a paper on "The Diagnosis of a Cause of Local Failure in Chemical Lead," which referred chiefly to the corrosion of lead by sulphuric acid and other liquids. The principal points brought to the surface by the paper and the discussion were that the corrosion is probably due to the crystallisation of the metallic lead, especially after it has been heated, and the presence of silver in the lead may help this crystallisation. This condition, which has actually been detected, gives corrosive liquids a better chance of attacking the metal. Mr. Davis agreed with a suggestion made in the course of the discussion that application of the x rays may throw some light upon the phenomenon.

Liverpool Pharmaceutical Students' Society.

The last scientific meeting of the session was held on March 2, the President (Mr. R. C. Cowley) in the chair.

Miscellaneous.

Mr. A. H. Morgan showed a sample of ung. zinci oleatis, prepared by precipitating the oleate at the temperature of boiling water and remelting with the paraff. molle. This gave a nice light-coloured ointment. Mr. Morgan also exhibited a sample of gelatin containing boric acid, the latter having crystallised out of the mass uniformly throughout, presenting the appearance of colonies of white bacteria in a clear culture medium.

The President read the following prescription, which had presented some difficulty:—

Ferri sulph.	gr. j.
Niccoli sulph.	gr. ½
Ext. bellad.	gr. ¼
Aloin.	gr. ¼
Ol. menth. pip.	mss.

M. Ft. pil. j.

This was dispensed by adding a little pulv. acaciæ, a large pill resulting. Mr. Marsden suggested pulv. saponis and pulv. tragac. as an excipient, and Mr. Catford proposed flour.

The President contributed a second paper on

Laboratory Waste-products,

supplementing the one read at the last meeting. The samples shown were ferric-potassium alum, made by boiling down the waste liquor from the H_2S apparatus; calcium sulphovinate, obtained from the residue left in the retort after distilling ether; and potassium sulphovinate, obtained from the last-mentioned salt. These salts may be used for preparing ethyl mercaptan, one of the starting substances in preparing sulphonal. Oleum ethereum, prepared from the residue left in the retort when making ether is known as heavy oil of wine, and can be utilised in making spt. æther. co.

Fine crystals of silver nitrite were also shown as an interesting salt not usually found on the pharmacist's stock-list. They are rather sensitive to light, and darken when exposed to it.

Mr. H. B. Morgan finished the programme with a paper entitled,

Some of Our Grandmothers' Fairies,

which proved to be a very ingenious *résumé* of what is known about bacteria.

Dewsbury Chemists' Association.

The annual meeting of this Association was held on March 6 in the Dewsbury Town Hall, Mr. A. Foster in the chair.

Mr Gledhill (Secretary) read the annual report, which stated that though the Association had only been in existence a year it had taken a front place among the associations of the country, as was testified by letters that had been received from various parts. The Association was financially sound, and the membership was good. The Association claimed to have been the first to consider the Government's Poisonous Substance Bill; and reference was also made to the discussions which had taken place in connection with Mr. Beecham's agreement. Communications have been addressed to the Privy Council, the Pharmaceutical Society, and the British Medical Association respecting the dispensing in surgeries and institutions by unqualified persons.

Mr. Stead reported a balance in hand of over 2*l*.

Both reports were adopted; and the officers, Mr. A. Foste (President), Messrs. Walker and Crook (Vice-Presidents), Mr. Stead (Treasurer), and Mr. Gledhill (Secretary), were re-elected. They were also thanked for past services.

Manchester Pharmaceutical Association.

Mr. Hermann Woolley, F.R.G.S., gave a lecture to a large audience of members of the Association and others in the Memorial Hall, Albert Square, on March 8, on "The Central Caucasus." The lecture was illustrated by a series of lantern-views, and was of an interesting and instructive character.

Newcastle-on-Tyne Chemists' Association.

At the meeting held on March 8 a discussion took place on the Federation-circular, after which Mr. F. R. Dudderidge read a

Note on Liq. Bismuthi,

the chief point in which was that relating to the loss of bismuth in washing the precipitated citrate, owing to the inadequate quantity of potash carbonate used to neutralise excess of nitric acid. It was a point which Mr. Dudderidge said he was not aware had been raised by any previous critic of the B.P. process.

[Mr. J. C. Umney, in an article contributed to this journal, pointed out this loss.—Ed. *C. & D.*]

Irish Pharmacists' Assistants' Association.

On March 3 the fortnightly meeting of this Association was held at Dublin. Miss Ada Wyatt, M.P.S.I., occupied the chair in the absence, through illness, of the President (Mr. Henry Hunt, M.P.S.I.).

Mr. Jessop, L.P.S.I., read a paper on

Pharmacopœia Revision,

in the course of which he said the flood of criticism in connection with the publication of the 1898 edition of the British Pharmacopœia had now almost subsided, and pharmacists in general had turned their attention from the latest issue of that volume towards the production of future "repeats" of the work. The claim had been urged, and not without reason, that the pharmacist should have some part in the production of the B.P., which was purchased and read chiefly by pharmacists. The question would arise, were the Irish pharmacists prepared to assume the responsibilities of joint compilers, and were they competent at present to speak with authority upon subjects that required a high degree of scientific training and practice in original research? Moreover, the number of chemists qualified for such work was limited. It was not improbable that the small amount of recognition the pharmacists had been given at the last Committee of Revision would lead to fuller representations later on, and it behoved all pharmacists to be prepared for the responsibilities. The absence of a laboratory in the Pharmaceutical Society's rooms, where post-graduate work could be carried on, was regretted. The establishment of a course of theoretical chemistry would be a great boon to junior students. This would form part of a free and voluntary course, and no doubt the 100 hours' practical work at the bench would be greatly increased in value if the students commenced it with a theoretical knowledge of the various reactions carried out.

Mr. Jones said if representation on the committee of compilation of the B.P. were governed by the proportion of users of the volume, the pharmaceutical element would predominate over all other professions.

Mr. Savage said the teaching of advanced chemistry was not carried out in Dublin as it ought to be. He was in favour of the Society starting a class for advanced chemistry and charging a moderate fee for the course. At present students were obliged to have recourse to the Technical Schools in Kevin Street. He believed if the Society tried the experiment of a class as suggested, they would find it paid well. Some further remarks having been made on the paper, the remainder of the evening was devoted to the solution of

Dispensing-problems.

The best way of compounding the following ointment so that a non-separable product might be obtained was discussed:—

	Oz.
Ichthyol	5
Water	8
Lanoline	10
Vaseline	20

The general belief was that the two first-named constituents should be mixed and then incorporated with the lanoline, and the vaseline should be added last. If heat be used at all in the process it should be very slight, and the ointment must be rubbed until it had again cooled.

Mr. Savage referred to some plasters he had made from time to time. One in particular was spoken about, its extremely large size (18 inches long by 12 inches wide) leading him to believe at the time that it was intended for a horse instead of a human being.

The gradual disappearance of alcoholic stimulants in prescriptions was commented upon, due partly to the spread of temperance and to the great increase of substitutes for alcohol.

The following prescription was submitted for discussion:—

Liq. strychniæ	℥j.
Sodæ bicarb.	ʒij.
Liq bismuth. (B.P.)...	ʒj.
Spt. chlorof.	ʒij.
Aq. destill. ad	ʒviij

M. Ft. mist.

ʒss. ter in die post cib.

The propriety of making up the mixture minus the liq. strychnia was debated. Miss Wyatt would have held over the prescription until the prescriber could be seen; otherwise there was a danger of precipitation if the mixture was compounded, and the result might be highly undesirable. Mr Savage said he would have added mucilage to suspend precipitation and have put a "shake" label on the bottle.

Some popular label-directions, such as "half a wineglassful," "a teaspoonful," &c., were criticised. These terms were held to be vague and misleading. As a remedy, it was urged that every family or patient should be in possession of a properly graduated medicine-measure. The propriety of affixing a "shake" on each mixture turned out was discussed. Mr Jessop said "shakes" should be seldom used, and only on mixtures liable to deposit poisonous substances. The too liberal use of the "shake" label defeated its own object, as familiarity with the injunction bred contempt.

A vote of thanks to the Chairman terminated the meeting.

The Chemistry of Gout.*

By Arthur P. Luff, M.D., B.Sc. (Lond.), F.R.C.P.,
Physician to St Mary's Hospital.

Gout is a disease which is associated with the presence of an excess of uric acid in the blood. Uric acid ($H_2C_5H_2N_4O_3$) is bibasic, and forms three classes of salts—(1) Neutral urates, such as $Na_2C_5H_2N_4O_3$; (2) biurates, in which half the displaceable hydrogen is replaced by a base—*e.g.*, $NaHC_5H_2N_4O_3$—a salt acid in constitution, but not to test-paper; (3) quadriurates, in which one-fourth of the displaceable hydrogen of two molecules of uric acid is replaced by a base—*e.g.*, $NaHC_5H_2N_4O_3,H_2C_5H_2N_4O_3$. Neutral urates cannot exist in the living organism, and therefore take no part in the chemistry of gout. Also, it should be noted, uric acid does not and cannot exist in the blood in the free state under any conditions. Sodium quadriurate is the soluble uric-acid compound which is originally contained in the blood of gouty subjects. This compound is, however, unstable, and reacts with sodium carbonate of the blood to form sodium biurate, which, if produced in larger quantities than the fluids of the body can retain in solution, is deposited in various structures in the crystalline form:—

$$2NaHC_5H_2N_4O_3,H_2C_5H_2N_4O_3 + Na_2CO_3$$
Sodium quadriurate Sodium carbonate
$$= 4NaHC_5H_2N_4O_3 + CO_2 + H_2O$$
Sodium biurate

Sodium quadriurate is therefore a comparatively soluble but very unstable compound, whilst sodium biurate is the reverse.

Cause of the Gouty Paroxysm.

The discovery of sodium biurate in the blood of gouty patients led to the much-discussed question as to whether it was the cause or the result of gout. Those who held the former view were in their turn divided as to whether the uric-acid compound only exerted its baneful effects when it had crystallised out of the blood and had become deposited in the affected tissues, or whether, while still circulating in the blood, it exercised a true toxic influence. The view generally held now, and to which I entirely subscribe, is that every paroxysm of gout is attended by a crystalline deposit of sodium biurate in some structure, generally the cartilages of a joint which is specially predisposed to its reception by being the seat of former injury or disease. The crystallisation of the biurate within the interstices of the cartilage then provokes the inflammatory changes, so that the deposition is the cause of the inflammation. The following facts are quite opposed to the view that uric acid possesses a toxic action:—

(1) There is no direct experimental proof that uric acid is a toxic agent.

(2) Although the fluids of the body of a gouty man on the eve of an outbreak of acute gout are impregnated with sodium biurate to saturation, yet such a person does not show any signs of poisoning, but enjoys complete immunity from toxic symptoms until the sudden advent of the joint attack.

(3) In certain blood-diseases the blood is frequently highly charged with uric acid in the form of sodium quadriurate without the production of any toxic symptoms that could be referred to that body.

Cause of the Presence of Uric Acid in the Blood in Gout.

The next question to consider is whether the excess of uric acid present as quadriurate and biurate in the blood in gout is the result of deficient excretion, of over-production, or of deficient destruction. All observers are agreed that an abnormal quantity of uric acid in the form of one or other of its salts is found in the blood in gout. This overcharging must be due to one or more of the following causes:—

(1) Normal production and deficient excretion of uric acid.
(2) Over-production and normal excretion of uric acid.
(3) Diminished destruction of uric acid by imperfect oxidation, or by some other means.

* Abstract of a paper read before the Chemists' Assistants' Association on March 9.

This last theory may be dismissed, as there is no proof that the process of oxidation destroys uric acid, but there is that uric acid is produced by oxidation.

With regard to the second theory of over-production and normal excretion of uric acid, there is abundant proof to show that an increased production of uric acid does not lead to gout, so long as the kidneys remain in a normal condition. For instance, in connection with certain blood-diseases there is an over-production of uric acid, but no development of gout, since in these diseases the excessive quantity of uric acid produced is readily excreted by the kidneys, as is shown by the large amount of uric acid that may be found in the urine. On the other hand, there are many facts to support the view that gout is due to deficient elimination of the uric acid normally produced in the kidneys, and to subsequent absorption of this uric acid from the kidneys in consequence of that deficient excretion.

Seat of Production of Uric Acid.

The view that I hold is that in both healthy and gouty individuals uric acid is only produced in the kidneys. In healthy individuals it is at once eliminated in the urine, but in gouty individuals the kidneys are unable to excrete all the uric acid manufactured in them, so that the surplus undergoes absorption into the circulation. The results of a lengthy experimental investigation, which were the subject of my Goulstonian Lectures delivered before the Royal College of Physicians in 1897, support this view. The view that has long been held that the liver is the seat of production of uric acid probably originated in the knowledge that the excretion of uric acid in the urine is most abundant during digestion, when the liver is most active. But this view is equally compatible with the idea that the liver merely produces the antecedents of uric acid, which subsequently become conjugated in the kidneys.

If the views as to the formation of uric acid in the liver be correct, then that body must be conveyed in the blood in order to be excreted by the kidneys. We know that some 400 to 500 gr. of urea are normally excreted in the urine, and that this urea is conveyed in the blood from various organs to the kidneys, where it is excreted. But, in addition, from 8 to 10 gr. of uric acid are daily excreted in the urine of man. The question is, Does this uric acid come as such to the kidneys? Is it produced in any of the organs or tissues of the body, and conveyed in the blood to the kidneys, to be by them excreted, or is it produced in the kidneys and then turned into the urine? The results of Sir Alfred Garrod's and my own investigations are that, in health, uric acid is entirely absent from the blood of man and other mammals, and also from the blood of birds. These results render it highly probable that uric acid must be produced in the kidneys, since it is not to be found in the only other medium—viz., the blood—which could bring it ready-made to those organs. In further support of this renal origin of uric acid are the following facts:—

(1) In renal diseases, which are associated with deficient excretory powers of the kidneys, uric acid always makes its appearance in the blood.

(2) Chronic lead-poisoning, which always affects the kidneys by diminishing their excretory powers, is always accompanied by the presence of uric acid in the blood.

(3) Both kidney-disease and chronic lead-poisoning are prone to produce gout.

Uric Acid and Diet.

A commonly received notion is that gout is accompanied by an excessive formation of uric acid, which is usually attributed to the ingestion of a too highly nitrogenised diet, and especially to an animal one. As to that it is to be observed that in certain birds living exclusively on grain gouty deposits have been observed. On the other hand, uric acid has been shown to be absent from the urine of some of the carnivora. The only reason that a vegetable diet is less productive of uric acid than an animal diet is in the fact that the former is poorer in proteid material, so that the assumption is not altogether correct that the total daily excretion of uric acid is greater on an animal than on a vegetable diet. With the same intake of nitrogen in the two diets there is practically no difference in the uric-acid output.

Formation of Uric Acid from Urea in the Kidneys.

In man uric acid is absent from the blood in health, while urea is always present in the blood. So also in birds; yet

the urinary excrement of birds consists entirely of compounds of uric acid, and contains no urea. What becomes of this urea? My view is that the kidney is an organ one of whose functions is to manufacture uric acid from the nitrogenised matters brought to it in the blood. Probably uric acid is formed in the kidneys by the union of urea and glycocine, the synthesis taking place in the following steps:—

1. The urea and glycocine produce hydantoic acid:—

$$\underset{\text{Urea}}{CH_4N_2O} + \underset{\text{Glycocine}}{C_2H_3(NH_2)O.OH} = \underset{\text{Hydantoic acid}}{C_5H_6N_2O_5} + NH_3$$

2. The hydantoic acid becomes dehydrated and forms hydantoin:—

$$\underset{\text{Hydantoic acid}}{C_5H_6N_2O_5} = \underset{\text{Hydantoin}}{C_5H_4N_2O_2} + H_2O$$

3. From more of the urea biuret is produced:—

$$2\underset{\text{Urea}}{CH_4N_2O} = \underset{\text{Biuret}}{C_2H_5N_5O_2} + NH_3$$

4. By combination of hydantoin and biuret uric acid is produced:—

$$\underset{\text{Hydantoin}}{C_5H_4N_2O_2} + \underset{\text{Biuret}}{C_2H_5N_5O_2} = \underset{\text{Uric acid}}{C_5H_4N_4O_3} + NH_3 + H_2O$$

The production of uric acid from urea and glycocine may be shown in a single equation as follows:—

$$3\underset{\text{Urea}}{CH_4N_2O} + \underset{\text{Glycocine}}{C_2H_3(NH_2)O.OH} = \underset{\text{Uric acid}}{C_5H_4N_4O_3} + 3NH_3 + 2H_2O$$

Facts Supporting this View.

Uric acid can be produced by the interaction of urea and glycocine. Glycocine is certainly formed in the human body, and probably is one of the antecedents of urea, for in man glycocholic acid, a compound of glycocine and cholic acid, passes in the bile into the intestine, and having served its purpose, and its constituents having been set free, the glycocine, together with the other amido-bodies, taurine, lencin, and tyrosin, pass in the portal blood to the liver, and probably in the hepatic cells are converted, or mainly converted, into urea. That glycocine is concerned in the production of uric acid is somewhat probable from the fact that in the carnivora, whose urine contains little or no uric acid, the bile contains no glycocholic, but only taurocholic, acid, and therefore yields no glycocine. If uric acid be formed in the kidneys from urea and glycocine brought from the liver, it can be readily understood that alterations in the metabolism of the liver must necessarily affect the formation and excretion of uric acid. This would explain why liver-trouble of some kind or another is so commonly associated with gouty dyspepsia, and also renders intelligible the fact that several observers have been unable to dissociate the connection between liver-troubles and gout, and have therefore attributed the formation of uric acid to the liver.

Formation of Gouty Deposits.

The uric acid which is formed in the kidneys is at once converted into a mixture of ammonium, sodium, and potassium quadriurates, which, in the normal state, are then excreted dissolved in the urine, and which, if they deposit from it, constitute the well-known "amorphous urate deposit." If, however, any absorption of the quadriurates into the blood takes place, as probably occurs in the gouty state, the ammonium and potassium quadriurates would be converted by the sodium carbonate of the blood into sodium quadriurate, which would constitute the sole compound of uric acid first circulating in the blood. It is from this body that the sodium biurate, of which the gouty deposits consist, is derived. This quadriurate, circulating in the blood which is rich in sodium carbonate, is gradually transformed by the latter into sodium biurate, which is less soluble, and is probably less easily excreted by the kidneys than the quadriurate. This biurate is probably not precipitated at once, since it would most probably pass at first into the hydrated or gelatinous condition, which is a much more soluble modification of sodium biurate than the crystalline form; but with the lapse of time and increasing accumulation it passes into the anhydrous or crystalline condition, and, as this form is almost insoluble, precipitation of it occurs. The time required for the conversion of the sodium quadriurate contained in the blood into the biurate is variable, and is doubtless dependent on several factors, such as the amount of quadriurate present, and the proportions of various saline constituents of the blood, which may either hasten or inhibit the change. This last-mentioned group of factors is a most important one in connection with the therapeutical treatment of gout.

The Diamond.

An Evening with Professor Moissan.

It was my privilege, writes our Paris correspondent, to be one of a ticket audience in the Richelieu Lecture-hall at the Sorbonne the other Saturday evening, when M. Henri Moissan, the distinguished and original chemist, gave a lecture on the diamond. The lecture reminded me of your Royal Institution discourses, but the surroundings were distinctly more academic than *dilettante*. The "Salle Richelieu" is in the New Sorbonne. It is a capital lecture-hall, in oak panelling, the upper part of the walls being white. The tone of the whole is painfully new, the building not yet being finished. The hall is capable of holding 700 persons, and it was full. I noticed a large contingent of students from the School of Pharmacy, where M. Moissan is Professor of Chemical Toxicology. In the front rows he was supported by a few of his fellow-professors. The remainder of the audience was mainly composed of the *bonâ-fide* Paris student, averaging from 20 to 25 years of age. A few older men and ladies were also present. The lecturer appeared at 9 P.M precisely—another thing which recalled the Royal Institution to me. He was in evening dress, and at once took his place on the raised platform reserved for lecturers. In front of him was a demonstration-bench, on which some simple chemical apparatus was placed, and the famous electric furnace, in which a sample diamond was ere long produced. The "chemistry of the diamond" would better explain M. Moissan's theme, for he told us all about the chemical composition of that precious stone, promenading the while on the platform in a restless way, thus rendering his speech partly inaudible whichever way his back was turned. Nevertheless, he was listened to with marked attention, for he is a popular man. Passing from the chemistry of his subject the lecturer entertained us with anecdotes of the discovery of diamonds at Kimberley and elsewhere, and then we were shown the famous electric furnace at work; two assistants attended to this. The electric current was brought in specially to the platform, but at the first trial the furnace did not go. At the second we were given to understand that a small diamond had been produced. The furnace itself looks little more than a toy, and yet it produces the greatest heat yet obtained. As M. Moissan, in spotless evening dress, stood behind the furnace, partly screened by the smoke and flames issuing from it, and one heard his pleasant, half-caressing voice, he certainly seemed the veritable exponent of modern alchemy. The professor's features became a little more relaxed, and we knew he was coming to a close. He spoke "of the joy of overcoming difficulties, also of the satisfaction of adding something to the scientific patrimony of one's country"; and while our thoughts lingered over the dream of untold wealth that this dark-complexioned man may (if he cares to keep it quiet) win from the slabs of earth in front of us, he disappeared by a door at the back with the celerity of a prestidigitateur. We glance at our watches, and are surprised to find that he has spoken to us practically without interruption for an hour and a quarter. It was a rare treat, and Nature was kind to us in taking us out into a night of sparkling reality.

Pharmacy in Italy is still under Government consideration. We recently noted the proposal to place public medicine-chests where pharmacies cannot be started. The Treasury finds itself unable to provide the wherewithal for these chests. It is now proposed to tax pharmacists to the extent of 20 to 30 lire per year, in order to get sufficient means for the periodical inspection of pharmacies and revision of concessions. An order has been issued in regard to homœopathic pharmacies, requiring them in future to keep all allopathic remedies in stock.

Personalities.

Councillor W. Griffin, chemist and druggist, has been elected an Alderman of the Corporation of Louth.

Mr J. E H. Watson, jun., chemist, Norwich and Frettenham, has been elected a member of the Ferttenham School Board.

Sir Edward Frankland, K.C.B., received the Wilde medal from the Manchester Literary and Philosophical Society last week.

Mr. William Briggs, chemist, Cheapside, Lancaster, has been re-elected a member of the Council of the Lancaster Chamber of Commerce.

The Newark Hospital has derived a legacy of 200*l.* from the late Mr. W. March, chemist, Newark, which, under the terms of the will, has been invested in the names of the Charity Commissioners.

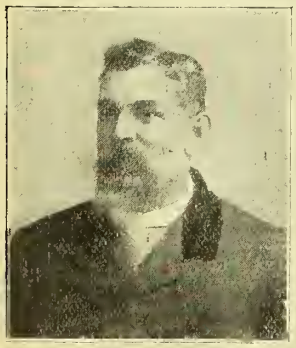
Worshipful Brother Robert W. Bowers (of Messrs. Bowers Brothers, chemists' printers, 89 Blackfriars Road, S.E.), P.M. Kent Lodge No. 15, and M.E.Z. Anglo-American, was duly installed W.M. of Emblematic Lodge on Monday, March 6.

At the first Drawing-room last week, Lady Aberdeen, besides presenting her daughter, Lady Marjorie Gordon, acted as sponsor for Mrs. Fulford, of Brockville, Ontario. "This lady," says the *Outlook*, "is the wife of the gentleman who lavishes vast sums on acquainting the public with a patent globule calculated to bring a blush to the whitest cheek."

Alderman Robert Gibson (pharmaceutical chemist) and Mrs. Gibson, ex-Lord Mayor and Lady Mayoress of Manchester, have been presented with a suite of silver plate, comprising a centre-piece epergne, a pair of candelabra, and four bowls for flowers or fruit, by the members of the City Council and their colleagues on the Art Gallery Committee, as a token of their appreciation of Alderman Gibson's personal character and in recognition of his valuable and efficient services as Lord Mayor of Manchester, 1897–98.

On March 1, Mr. John Gilling, pharmaceutical chemist and ex-Mayor of Saffron Walden, was presented with a framed illuminated address by the members of the Walden division of the Essex Constabulatory. During the years of his mayoralty Mr. Gilling inaugurated an annual dinner to the constabulary which has since been subscribed for and maintained by many of the principal residents. The address expressed the appreciation of the subscribers for the many kindnesses shown by Mr. Gilling towards them during his year of office, and was signed by the superintendent and twenty-three officers.

We recently mentioned that Mr. W. E. Smith, J.P., of Ootacamund, had been appointed Sheriff of Madras. This is an exceptional honour, and it is rarely paid to a commercial man. Mr. Smith, whose portrait we now give, is the first chemist upon whom it has been bestowed. Mr Smith founded the well-known retail and wholesale drug business of Messrs W. E Smith & Co., Madras. He retired from this a few years ago in favour of his sons, who are now carrying it on, and who have constructed one of the finest stores connected with retail pharmacy existing in India. Mr. W. E. Smith keeps in touch with pharmacy through the business which he opened at Ootacamund. He is a man of imposing appearance, and visited this country about seven years ago, when he made a good many acquaintances in pharmaceutical circles.



Business Changes.

Messrs. Howell have opened a new drug-store at Clarence Place, Newport, Mon.

Messrs. Coleman & Co., chemists, High Street, Cardiff, have removed to 48 St. Mary Street in the same town (opposite the Theatre Royal)

Messrs. Pope & Plante, manufacturers of elastic stockings and surgical bandages, are about to remove from 136 Regent Street to 39 Old Bond Street, W.

Fromms Extract Company (Limited) have removed their registered offices from 61½ Fore Street, E.C, to their warehouse-premises at 5 White Street, Moorfields, E.C.

Mr. Edward F. Young, of Wells Road, Totterdown, has acquired the business of the late Mrs. W. W. Jones, at Staple Hill, Bristol, and will make it a branch-establishment.

Messrs. Burgons (Limited), a firm of grocers in Manchester, have opened a pharmacy in one of the principal thoroughfares of the city, which is conducted under qualified managership.

The business carried on for many years at the top of Woolshops, Halifax, by Mr. Pollard, chemist and druggist, has been acquired by Mr. W. Alfred Proctor, wholesale druggist, Aloert Works, and will henceforth be known as "Pollard's Pure-drug Stores."

The business of the late Mr. H. B. Pare, dispensing and family chemist, at the Central Pharmacy, Todmorden, whose death was announced in our issue of Saturday last, has been transferred to Mr. H. P. Lovatt, chemist-optician by examination, and dispensing prizeman, Westminster College, London. Mr. Lovatt was the manager of this branch of the late Mr. Pare's extensive business.

New Books.

Any book named in this list can be supplied post-free to any part of the world on receipt of the published price by the Publisher of The Chemist and Druggist, 42 *Cannon Street, London, E.C.*

Bartley, E. H. *Text-book of Medical and Pharmaceutical Chemistry.* 8vo. 10*s.* 6*d.* net. (Kimpton.)

Barton, F. T. *The Ailments of Horses.* 7⅛ × 3½. Pp. 108. 1*s.* (Dean.)

Bretschneider, E. *History of European Botanical Discoveries in China.* 2 vols. Royal 8vo. 30*s.* net. (Low.)

Méric, H. de. *Dictionary of Medical Terms: English-French.* 8¾ × 5½. Pp. 402. 5*s.* net. (Baillière.)

Nursing Profession: How and Where to Train. Ed. by Sir Henry Burdett. 7½ × 5. Pp. 374. 2*s.* net. (Scientific Press.)

Osborn, S. *Ambulance Lectures.* 4th ed. 6¾ × 4⅛. Pp. 164 2*s.* (H. K. Lewis.)

Physician's Book for Private Formulæ, with Posological Table. Limp roan. 2*s.* (Wright, Bristol; Simpkin, London.)

Schnabel, C. *Handbook of Metallurgy.* 2 vols. Vol. 1: Copper—Lead—Silver—Gold. Vol. 2: Zinc—Cadmium—Mercury—Bismuth—Tin—Antimony—Arsenic—Nickel—Cobalt—Platinum—Aluminium. 9⅛ × 6. Pp. 1640. 42*s.* net. (Macmillan.)

Spitta, E. J. *Photo-Micrography.* Forty-one half-tone reproductions; 63 text illustrations. 11 × 8½. Pp. 176. 12*s.* (Scientific Press.)

Thompson, C. J. S. *Poison Romance and Poison Mysteries* 7½ × 5½. Pp. 266. 6*s.* (Scientific Press.)

Thorp, F. H. *Outlines of Industrial Chemistry: a Text-book for Students.* 9⅜ × 6. Pp. 562. 15*s.* net. (Macmillan.)

Voorhees, E. B. *Fertilisers: and Suggestions as to their Use.* 7¼ × 4⅝. Pp. 350. 4*s.* 6*d.* (Macmillan.)

Walters, F. R. *Sanatoria for Consumptives in Various Parts of the World.* Intro. by Sir Richard Douglas Powell. 9 × 5⅝. Pp. 394. 10*s.* 6*d.* net. (Sonnenschein.)

Year-book of Treatment for 1899*: Critical Review for Practitioners of Medicine and Surgery.* Illus. 7½ × 4⅝. Pp. 480. 7*s.* 6*d.* (Cassell.)

Reviews.

Sell's *Directory of Telegraph Addresses* (21*s.*), the fourteenth annual issue of which has just appeared, contains nearly 2,000 pages, and gives the telegraphic address of every person and firm in the United Kingdom who has one. These are compiled from the particulars supplied by the Post Office. Telephone numbers are also added. A few essays on British trade and foreign competition are annexed, and a coloured map of China, indicating the markets for British produce, is given as a supplement.

Golden Rules. (1) Surgical Practice, by E. H. Fenwick, F.R.C.S.; (2) Gynæcology, by S. Jervois Aarons, M.D.; (3) Obstetric Practice, by W. E. Fothergill, M.D.

These are little vest-pocket books published by Messrs. John Wright & Co., Bristol, at 1*s.* each. They are excellent as far as they go, which is to give medical students points of importance which they must know, but which they are apt to forget during the early days of their clinical experience. One might call them cram-books, but they are really selected brevities which men of great experience know to be the essentials in the departments dealt with.

Practical Pictorial Photography. Part II. By A. Horsley Hinton. $7\frac{1}{8} \times 4\frac{3}{4}$. Pp. 69. (Hazell, Watson & Viney.) 1*s.*

This book is No. 18 of the "Amateur Photographer" Library, and is the second part of the work we noticed in the *C & D.*, August 20, 1898, page 349. This part contains numerous types and examples of pictorial photography and shows the application of the practice and theories laid down in the previous volume. We have found the book of great interest, not only by reason of the illustrations with which the text is made plain, but on account of the practical hints on the methods of procuring additional effects on the negative.

Chemistry in Daily Life. By Professor Lassar-Cohn. Translated by M. M. Pattison Muir, M.A. $7\frac{3}{8} \times 4\frac{3}{8}$. Pp. xii.–336. 2nd ed. 5*s.* (H. Grevel & Co.).

This is a translation of a course of lectures on technical subjects delivered by Dr. Lassar-Cohn to a Society at Königsberg, modelled on the plan of the Humbolt Academy of Berlin. The subject is a very wide one, and the author and translator have managed to make a very readable book out of it. According to the preface the book is designed to dispel the vague notions which circulate in men's minds concerning chemistry, which it does very well without requiring technical knowledge on the part of an intelligent reader.

Text-book of Medical and Pharmaceutical Chemistry. By E. H. Bartley, M.D., B.Sc. 5th ed. $8 \times 5\frac{1}{4}$. Pp. xiv.–738. 96 Illust. (H. Kimpton.)

The author has written this book especially as a text-book for medical students attending lectures. The first part deals with the theories of chemical physics, and then in order the parts deal with the theory of chemistry, elements and compounds, and such organic compounds as a medical man is likely to meet with. The physiological and toxicological bearings of the subject are touched on where necessary, but a special part is given on physiological chemistry which includes the subjects of milk, fæces, and urine analysis. The appendix is a good feature, and contains a fairly complete solubility-table of chemicals used in medicine, and a glossary of synonyms. The information in the book is compactly given, and the compilation is a decidedly useful one.

The Pocket Pharmacopœia, including the Therapeutic Action of the Drugs with the Natural Orders and Active Principles of those of Vegetable Origin. By F. Hudson-Cox, F.I.C., F.C.S., and J. Stokes, M.D., B.S., M.R.C.S. (Ballière, Tindall & Cox.) Small 8vo, pp. 206. 3*s.* 6*d.*

The nature of the book is sufficiently explained by the title. It is a condensed Pharmacopœia on the plan of a former edition published in 1885, and written by the late Dr. Armand Semple. The additions and eliminations of the 1898 Pharmacopœia have, however, necessitated considerable alteration to bring the work up to date. The original design has likewise been usefully amplified, and the authors have compiled a concise and serviceable handbook for students and physicians. Its use to the practical pharmacist, who, perforce, is the possessor of a B.P., is not quite so apparent, but Minor students will find it suitable for cramming purposes.

Bocquillon's *Formulaire des Médicaments Nouveaux* for 1899 (J. B. Baillière et fils) contains a great number of new articles recently introduced to therapeutics, such as benzeucaine, captol, cearine, cosaprine, creosolide, eigone, erythrol, euphthalamin, gaiacyl, glycerophosphate of quinine, guaiaquine, guéthol, hydrargyrol, ingestol, iodamylum, iodocasein, iodogallicine, iodoterpine, largine, alkaline and metallic oleates, orthophosphate of silver, oxotes, phosphate of bismuth, protargol, quinochloral, saligallol, salicylate of mercury, saliformine, santannol, styrone, tannone, thiocol, ursal, valerydine, validol, vanadine, and a large number of colonial and exotic plants recently introduced to therapeutics. We have on former occasions had the opportunity of commending this book on new remedies, and the methodical manner in which the author keeps it up to date enables us once more to call the attention of those who read French to its excellencies.

Chemistry for Schools. By G. Haughton Gill. Revised and enlarged by D. Hamilton Jackson, M.A., B.Sc., Ph.D. (Heid.). London, 1889. (Edward Stanford.) Cloth, 4*s.* 6*d.*

A crown octavo volume of 368 pages, whose aim is "to supply a direct means of training the mind in habits of the correct observation of facts, and of accurate reasoning from facts to generalisations." This it does in an admirably simple and clear manner throughout. For the elucidation of the experiments to the students there are a hundred illustrations, and a series of questions follow each chapter for the use of the teacher. Towards the end of the book a chapter is devoted to the atomic theory, another to crystalline systems, and a third to the metric system. Following these are illustrated descriptions of "general operations," such as filtration, distillation, ignition, &c., and the "preparation of apparatus," which includes the boring and fitting of corks, the coating of retorts and tubes, and other simple but necessary hints to the fresh student. Last of all comes an innovation in the shape of a useful catalogue and price-list of apparatus and chemicals, compiled from the price-lists of various well-known chemical and scientific apparatus firms. That the book is appreciated may be ganged from the fact that the present issue is the tenth edition.

King's American Dispensatory. 18th edition. By H. W. Felter, M.D., and J. U. Lloyd, Phr M., Ph.D. Vol. I. Cincinnati: The Ohio Publishing Company. London: Potter & Clarke. Large 8vo. 951 pp. $4 50.

The "American Dispensatory" is a book which has long had a high reputation. Dr. King, the original writer of it, was the father of the eclectic school, and the inventor of resinoids. His book differed from most dispensatories in containing personal observations on many American remedies, about which information was not obtainable elsewhere. It had, therefore, peculiar value to the therapeutist. Besides, the information regarding the botanical origin of drugs and their constituents was good. The present edition is, we learn from the title-page, "entirely rewritten and enlarged." It retains the main features of the original work, and is to be regarded as the text-book on eclectic medicine; but the scope is widened, so as to embrace medicine generally. The present volume embraces materia medica from A to F. The value of the "Dispensatory" to the pharmacist and the physician is maintained; but we regret to note that, in bringing the book up to date, the editors have sacrificed much of the special utility of the old work by making it a rival to other well-known American dispensatories. We also note that, while the preface enlarges upon the time that has been spent in bibliographic research for the purpose of the revision, there is not in the present volume, at least, sufficient evidence that this research has been conducted with care; in fact, we are disappointed to note that much of the old matter now obsolete is retained, and the researches upon drugs made during the last decade or two are but scantily referred to, or not at all. We hope, therefore, that in the second volume the editors will give more attention to recent work.

Novelties.

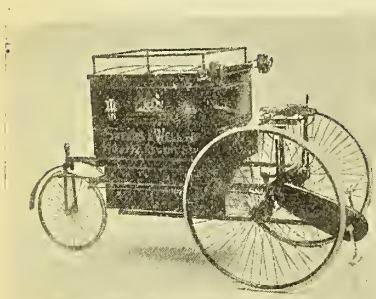
CLOTH-CLEANERS.

The spring-cleaning season is coming on, and the frugal housewife, in looking around for carpet and summer-dress renovators, will doubtless give a trial to Dr. Söhulin's preparations, "Pamina Extract" and "Panama Bomb." We have had samples of these articles submitted to us by the sole agent in this country, Mr. H. S. Benjamin, 3 New Union Street, Moorfields, E.C., and find them effective grease-removers and renovators. The "Extract" is a hard brown paste, neatly put up in round tin boxes, and the "Bomb" is a cartridge-shaped substance of the same colour and consistence, which can be conveniently carried in the waistcoat-pocket for everyday use. They are cheap as well as good. The samples were accompanied by a quantity of attractive showcards and counter-literature.

SPLINTS AND PINS.

Messrs. James L. Hatrick & Co. (Limited), 82 Turnmill Street, E.C., have shown us samples of Stoddart's patented aseptic surgical splints, which are formed into shapes for various parts of the body. For example, there is one for broken jaw, which fits the lower jaw perfectly and so comfortably, that on trying it on one almost wishes for the occasion to wear it. The material from which the splints are made appears to resemble paper-mache, but strips of tough white wood are stretched across it like veneer, in order to give strength to the whole. The splints are very strong, quite light, and 25 per cent. cheaper than metal splints. A year or two ago we called attention to the patent safety surgical pins which this firm introduced into the home market from the United States. They again show us samples, because they are now able to supply them cheaper, and the spring ends of the pins are now protected with a sheath of metal, which prevents the fabric catching there. The pins are put up in three-dozen boxes at 2*s.* to 3*s.* 6*d.* a gross, or carded 6*d.* a gross extra; they may be had assorted.

SINGER CYCLE-CARRIERS.



The small engraving which accompanies this note is made from a photograph of an exceedingly handsome delivery-cart, manufactured by the Singer Cycle Company (Limited), of Coventry, whose London office is at 17 Holborn Viaduct, E.C. The company's cycles are no doubt well known to pharmaceutical cyclists, and it is interesting to observe that in the production of business-carts the company endeavour to incorporate all the cycle-improvements which make for speed and strength. The carts are made with cushion tyres or with pneumatic tyres, as may be desired by the chemist, and there are several forms besides the one which we illustrate, while the company are prepared to make carts of any design. A good deal of thought appears to have been spent in making the most of the interior, and it will be admitted that the finish of the machine is excellent. Our subscribers can obtain further information in regard to the carts, with illustrations and prices, on application to the London office.

LOFOTEN COD-LIVER OIL.

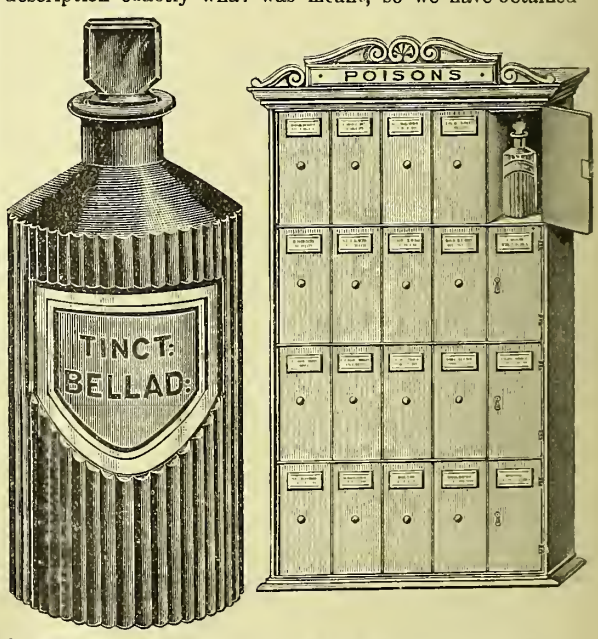
We received last Saturday morning from Messrs. Randall & Son of Southampton, a sample of their cod-liver oil prepared in the Lofoten district. The oil is different in several respects from samples of Norwegian oil which we have previously seen this year. It is pale in colour, practically odourless, and is destitute of the slightly irritating effect upon the fauces which is characteristic of the Southern oil. It is also more limpid. Messrs. Randall & Son offer this oil in Winchesters, as well as in original barrels, and we notice that the Winchesters have a very striking label which shows the cod-fishing in the Norwegian fiords.

Messrs. Freudentheil & Co., 21 Mincing Lane, E.C., who are the wholesale agents for Broeder Aarsæther's make of cod-liver oil, were not half-an-hour behind the last-mentioned firm in placing with us a sample of the new season's Lofoten oil. This oil is also of exceptional quality, and is undoubtedly of Lofoten origin. Colour, odour, and taste are all on the minimum scale. Messrs Freudentheil only supply wholesale buyers who can take the usual wholesale quantities (10 barrels or more) on f.o.b., c.i.f., or spot terms, London or Hull.

Messrs. R. W. Greeff & Co., 20 Eastcheap, E.C., also send us a sample of Thesen's steam-refined non-freezing oil (Lofoten 1899), which is of excellent quality, especially in regard to taste, which we find to be rather agreeable. Messrs. Greeff are the agents for Messrs. J. Thesen & Co., and supply wholesale buyers only.

POISON BOTTLES AND CUPBOARDS.

We have already referred, in reporting upon the recent exhibition of poison-regulation requisites at Edinburgh, to the new cupboard which Messrs. Evans, Sons & Co., of Liverpool, have designed and registered. A peculiarity of the cupboard is that only one bottle can be seen or used at one time. It was not easy to understand from a written description exactly what was meant, so we have obtained



from the firm the annexed engraving, which will show our readers exactly what it is. It will be seen that the cupboard will make a good addition to the ordinary shelving. We also show the firm's shop-rounds for poisons. These are made in actinic-green glass, and have the shield recess-label designed by them, and executed, if necessary, in colours different from other shop-labels. We think that, for shop-

purposes, white-flint glass bottles are better than coloured ones, because it is necessary for the dispenser to see exactly what is the colour of the substances contained in the bottles. We would suggest that the firm should make the bottles in white flint as well as in actinic green. The cupboard and bottles may also be obtained from Messrs. Evans, Lescher & Webb.

"PAH = PASTE AT HAND."



Messrs. J. H. Smith & Co., Newark, are putting up tubes of paste for mounting photographs, scraps, and for other domestic purposes, which they call "Pah." The name "Pah," which at first somewhat puzzled us, is made up of the initials of the phrase "Paste at hand." The novelty about the tubes is the spreader on the bottom. This acts as a substitute for a brush, and answers the purpose very well. The tubes sell at 3*d.*, a price which most householders can afford to spend, if only to have "Pah" handy. There is a good trade-allowance off the retail price.

Trade Notes.

Messrs. Wilkinson & Simpson (Limited), Newgate Street, Newcastle-on-Tyne, have been appointed by Mr. John Rye Holmboe, of Tromsoe, Norway, depôt agents for his "Holmboe" brand of Norwegian cod-liver oil.

Mr. Vincent Wood, Victoria House, Albion Place, Blackfriars, has prepared a neat enamelled showcard, with the following legend in sunken-silver letters, "Trusses, Elastic Hosiery, and Surgical Appliances," which he gives to his customers. He is having others done in similar style to cover all his goods.

The Credit Assurance and Guarantee Corporation (Limited) offer to all *bonâ-fide* commercial travellers a card guaranteeing an insurance for 100*l.* against fatal conveyance accidents. The object is to attract the attention of commercial travellers to their scheme of credit-insurance. The address of the corporation is 10 King William Street, E.C.

The Berkefeld Filter Company (Limited), 121 Oxford Street, W., have issued a new edition of their price-list. The catalogue contains descriptions and illustrations of all the chief forms of the Berkefeld filters, together with the prices. The list is prefaced with a short statement of how the efficacy of the filters in separating bacteria can be proved.

Drug Price-list.—One of the neatest price-lists we have had sent us lately is that of Messrs. Allison, Johnson & Foster, wholesale druggists and drysalters, Hull. It is in size 6¾ by 3⅜, and it is provided with indexical edges, so that the different departments dealt with can be easily referred to. In addition to drugs and drysaltery, this firm have a good list of packed proprietaries for chemists' sale, which are known as "Irving's Specialities."

Toilet Articles.—Messrs. F. Gillespie & Co., Fairford Works, Lower Kennington Lane, S.E, have submitted to us samples of some of the toilet articles mentioned in their advertisement. These comprise carbolic tooth-powder in tins of three sizes, limes and glycerin, milk of cucumber and glycerin, cream of lilies, bay-rum, brilliantine, and perfumes. One of the leading lines is a triangular box containing a bottle each of eau de Cologne, lavender-water, and triple extract. The labels in all cases are neat and without the name of the firm, and, judging from the prices at which they are offered, the goods value for the money. The goods, we are informed, are prepared under the superintendence of an analytical chemist of many years' experience.

The Tasmanian Eucalyptus-oil Company, 138 Leadenhall Street, E.C., send us a copy of a twelve-page pamphlet on the characteristics and analysis of eucalyptus globulus oil. This company, it may be remembered, introduced their well-known oil into this country in 1892, and they were amongst the first, if not the first, to guarantee the oil to contain a minimum percentage of eucalyptol, also that their oil would be in other respects uniform, they having, during the past seven years, persistently maintained the advisability of the B.P. recognising oil containing a definite percentage of eucalyptol, and their contention has been in a great measure adopted. The company now do good service by the issue of the pamphlet, which describes all the Pharmacopœia tests of the oil. The information given is very useful, and we note that it is conveyed in such a way that those who do not examine such things as eucalyptus oil every day may still carry out the tests satisfactorily. The pamphlet quotes from The Chemist and Druggist the results of analyses of twenty-eight commercial samples of eucalyptus oil, only seventeen of which contained eucalyptol in quantity sufficient for separation. The company will send a copy of the pamphlet to any of our subscribers who asks for it by post-card.

New Companies & Company News.

Boothman Patent Filter Syndicate (Limited).—Registered in Scotland with a capital of 500*l.*, in 1*l.* shares. Registered office, 105 West George Street, Glasgow.

Eastmid Company (Limited).—Capital 1,000*l.*, in 1*l.* shares. Objects: To carry on at Peterborough the business of photographers and makers of photographic apparatus and materials.

Grimsby and District Mineral-water Company (Limited).—Capital 2,000*l.*, in 1*l.* shares. Objects: To manufacture, sell, and deal in mineral, aërated, and artificial waters and other drinks.

Charles Jones (Twickenham) (Limited).—Capital 6,500*l.*, in 1*l.* shares. Objects: To acquire and carry on the business of a mineral and aërated water manufacturer carried on by C. Jones at Twickenham, Middlesex.

Somerset Fullers' Earth and Ochre Company (Limited)—Capital 5,000*l.*, in 10*l.* shares. Objects: To acquire and carry on the fullers' earth and ochre works at Emborough, Somerset. Registered without articles of association. Edgar J. A. King, pharmaceutical chemist, of Midsomer Norton, is one of the first subscribers.

Foreign Instra Warmers (Parent) Syndicate (Limited).—Capital 60,000*l.*, in 1*l.* shares. Objects: To acquire patent rights relating to the production and manufacture of hand-warmers or pocket-stoves, horse-stoves, respirators, chest stoves, bicycle hand-warmers and foot-warmers (all heated with charcoal or other similar substance), &c.

H. Kolle & Son (Limited).—Capital 50,000*l.*, in 1*l.* shares. Objects: To acquire the business of "H. Kolle & Son," of Glemsford, Suffolk, and 65 and 66 Queen Street, London, E.C., and to carry on the business of matting seating and curled hair manufacturers, textile-fabric manufacturers, brush-makers, chemical manufacturers, chemists, oil and colour merchants, bleachers, dyers, &c.

Read Holliday Acetylene Company (Limited).—Capital 30,000*l.*, in 10*l.* shares. Objects: To acquire and carry on that part of the business of Read Holliday & Sons (Limited), of Huddersfield, which relates to the manufacture of acetylene-gas generators, and of acetylene-gas cycle and other lamps, and the sale of calcium carbide. The first directors are Duke Fox, Robert Holliday, Thomas P. Crosland, and Wm. Cardno.

Wagel Syndicate (Limited).—Capital 10,000*l.*, in 1*l.* shares. Objects: To acquire, work, and develop a secret process for the manufacture of an antiseptic and inodorous soap, shampoo-wash, and other unique toilet requisites, and to enter into an agreement with Warrenne Bulkeley. (The

subscribers include Harry Cox, engineer, of 23 Windsor Road, Holloway; Samuel Aldred, insurance official, of 63 Thread-needle Street, E.C.; Henry B. Walker, gentleman, of 112 Cardigan Road, Headingley, Leeds, &c.)

Samuel Cooper (Limited).—Capital 1,000*l.*, in 1*l.* shares. Objects: To acquire and carry on the business of a chemist, druggist, patent-medicine vendor, tobacconist, and general storekeeper, carried on by Samuel Cooper at 11 Axe Street, Barking, Essex, as "The Cooper Drug-stores." The first subscribers (each with one share) are:—Samuel Cooper, druggist, and Mrs. Florence L Cooper, 11 Axe Street, Barking, Essex; Severin Fehrenbach, 63 Worth Street, Barking; Wm C. Sale, Carsbalton, draper; Miss Ada J. Chester, 14 Stockwell Street, Greenwich; Robert Willett, Barking, draper; Augustus Trevear, 79 Upton Park Road, Forest Gate, E., chemist and druggist Registered without articles of association. Samuel Cooper is the managing director. Registered office, 11 Axe Street, Barking, Essex.

John Howarth & Co. (Limited).—Capital 2,000*l.*, in 1*l.* shares. Objects: To acquire the printing, publishing and stationery business carried on by John Howarth, at 85 Burnley Road, Padiham, Lancs (together with the rights of the *Padiham Advertiser*), and the drug store carried on by him at 83 Burnley Road, Padiham, and to carry on the business of printers, publishers, stationers, chemists, oilmen, &c. The first subscribers (each with one share) are:—Annie M Howarth; John Howarth, printer; Alice Howarth, no occupation; Alice Howarth, housewife—all of 83 Burnley Road, Padiham; Enoch Ashworth, loomer, and Susannah Ashworth, 148 Russell Terrace, Padiham; and Dennis Howarth, 55 Colne Road, Brierfield, grocer. The first directors are Annie M. Howarth, John Howarth, Alice Howarth, Dennis Howarth, and Enoch Howarth.

W. Bates & Co. (Limited).—Capital 6,000*l.*, in 1*l.* shares. Objects: To acquire the business carried on by William Bates at 50 Oxford Street, Southampton, as "W. Bates & Co.," and to carry on the business of chemists, druggists, drysalters, oil and colour men, teeth-extractors, and makers and fitters of artificial teeth. The first subscribers (each with one share) are:—Wm Bates and Thomas Harris, chemists, 50 Oxford Street, Southampton; John Adams, 49 Oxford Street, Southampton, bookseller; George Meatyard, Queen's Park, Southampton, gentleman; Joseph E. Dawe, 32 Queen's Terrace, Southampton, shipping-agent; Sydney H. Sawbridge, 147½ High Street, Southampton, auctioneer; Donald MacNicol, 37 Belmont Road, Portswood, Southampton, ship-store dealer. Wm. Bates is the managing director, with 50*l.* per annum.

Keene & Ashwell (Limited).—Capital 5 000*l.*, in 1*l* shares (3 000 10*l*-per-cent. preference). Objects: To acquire the business carried on as "Keene & Ashwell" at 74 New Bond Street, W., to adopt an agreement with John Keene and Lawrence T. Ashwell, and to carry on the business of wholesale and retail homœopathic chemists, druggists, pharmacists, herbalists, druggists' sundriesmen, patent-medicine vendors, and makers of mineral and aërated waters soaps, toilet-requisites, disinfectants, &c. The first subscribers (each with one share) are:—John Keene and Lawrence T. Ashwell, 74 New Bond Street, W., chemists and druggists; Wm. J. Bannister, 75 New Bond Street W, stationer; Frederick Elliott, 17 Staincliffe Street, Edgware Road, W., printer; S. B. Fieldgate, Buckland House, Wilson Road, Camberwell, accountant; Henry L. Cooper, Laines, Amport, near Andover, Hants, merchant; Arthur Rowland, 4 Benedict Road, Stockwell, S.W., writer. The first directors are Lawrence T. Ashwell (managing director), and others to be appointed by him. Qualification, 250 shares. Remuneration, 200*l* per annum, divisible. Registered office, 74 New Bond Street, W.

Provincial Store Chemists (Limited).—Capital 5,000*l.*, in 1*l.* shares Objects: To acquire and carry on the business of a retail chemist and druggist, drug-merchant, optician, tea-dealer, Italian warehouseman, and general storekeeper, carried on at 33 Hyde Park Road, Leeds, as "The Provincial Supply Stores," the business of a manufacturing chemist carried on at the same address under the styles of "The Standard Remedies Manufacturing Company" and "The American Homœopathic Drug Company," and the business of a store chemist carried on at 21 Grand Arcade, Leeds, as "The Provincial Store Chemists," and to adopt an agreement with Arthur Bainton. The first subscribers (each with one share) are:—Arthur Bainton, 4 Brookfield Avenue, Harehills, Leeds, chemist; Thomas H. Bainton, 2 Spring Grove Avenue, Leeds, chemists' manager; William J. Scurrah, 6 Brudenell View, Leeds, clothier; Harry P Buckley, 8 East Parade, Leeds, architect; Edward C. Staples, Alexandra Road, Leeds, soap-manufacturer; Henry Wright, 10 Grant Row, Leeds, rate-collector; Charles J. Hopkins, 52 Evington Road, Leicester, ironmonger. The first directors are Arthur Bainton (chairman and managing director), Thomas H. Bainton, and John Bainton. Registered office, 33 Hyde Park Road, Leeds.

The directors of Schering's Chemical Factory report a gross profit of 606,647*m.* in 1898, against 534,154*m.* in 1897, and recommend a dividend of 8½ per cent. on the ordinary shares, or 1 per cent. more than in 1897, and 4½ per cent. on the preference shares.

Vimbos (Limited).—A committee of shareholders in this company in Edinburgh is recommending that proceedings be taken against the company and its late directors, for rescission of the contract under which the company bought the rights of manufacture from Mr. Anld, the promoter, for a sum of 55 000*l.* The proposed action would also be for the rectification of the register of shareholders by the removal of their names, that they might obtain relief from payment of the outstanding call, and the return of their money.

Junior Army and Navy Stores (Limited).—The report states that for the year 1898 the sales amounted to 585,744*l.*, and, after providing for general expenses, carriage, and packing of goods, a profit of 16,108*l.* is shown, making, with the balance brought forward, a total of 32,153*l.* The sum of 2 000*l.* has been added to reserve, redemption, and depreciation fund which now amounts to 27,220*l.*, and the directors recommend a dividend of 5 per cent., tax free, for 1898. The report was adopted at the meeting of shareholders.

Rosbach (Limited).—The third annual meeting of the shareholders of this company was held at the Café Monico on Monday, Mr. Edward Moore presiding. In his statement the Chairman stated that during 1898 7,882*l.* 10*s* had been paid in respect to calls on shares, making the paid-up capital 60,608*l* 5*s* The cost of developing the business during the year had been 5,458*l* 11*s.* 6*d.*, and the balance on the trading account was within a fraction of 5 000*l.*, which was 28 per cent. better than the year before. A reduction of 400*l* had been made in the working-expenses, so that the directors were able to report a credit balance of 961*l* 1*s.* 4*d.*, against a debit of 481*l.* 18*s.* 1*d.* in 1897. The Chairman referred to several matters connected with the directorate, amongst them the fact that the remuneration had now been placed upon a definite basis of 50*l.* per annum per director, the fees thus paid last year amounting to 195*l.* Mr Moore also referred to the growing popularity of Rosbach water, especially in the army. The report of the directors was adopted. It did not include recommendation of a dividend. Messrs. D. H. Evans, Richard Pearce, and A. W. Poulton were appointed directors for the ensuing year.

Civil Service Co-operative Society (Limited).—The annual meeting of this society was held at the Criterion on March 6, Mr. C. J. Cox presiding. In moving the adoption of the report, which declared a dividend of 5 per cent., with a bonus of 1*s* 6*d.* a share, the Chairman observed that the mortgage account now stood at 7,500*l.* The sales for 1898 showed a diminution of 13 050*l.* as compared with 1897, but he proceeded to show that the net decrease of sales might really be taken as only a little over 5,000*l.* Although the total value of the sales had diminished, the volume of business had increased, the number of cases and packages despatched in 1898 being 12,000 in excess of those sent out in 1897. A new step was the proposed appointment of a managing director, for whom the directors suggested that an extra remuneration of 200 guineas should be voted. The appointment had been made to bring about a more uniform system of management than could be attained under committees working independently of each other. The motion was seconded and adopted, and the retiring directors re-elected. It was stated that the directors had

selected Mr. J. M. Goldie for the position of managing director.

Spratt's Patent (Limited).—The report for the past year states that the profit and loss account, after providing for expenses of management, maintenance of premises, plant, and machinery, also charging interest on mortgage, debentures, preference shares, and all other expenses, also providing a reserve of 2 000*l* (as last year) against possible bad debts, and writing off 3,500*l* from the first item of assets, shows a balance of 27 994*l*. From this has to be deducted the interim dividend paid, at 10 per cent. per annum, for the first six months, leaving 20,494*l*. The directors recommend a dividend for the second six months of 15 per cent. per annum, making with the interim dividend 12½ per cent. for the year; 5 000*l* will be added to special reserve, making it 20,000*l*., and 4 244*l* will be carried forward. In view of the extension of the South-Eastern Railway at Bermondsey, in progress, seriously interfering with the factory there, the board decided to largely increase facilities at Poplar by erection of more buildings, with ovens, machinery, drying-floors, workshops, and warehouses For this purpose they issued the 50,000*l*. remaining share capital of the company in 4*l*. 10*s*. per cent. preference shares, which were readily subscribed.

Marriages.

Labry—Divers.—At Tokio, on January 18, Captain Viset de Labry, Military *Attaché* to the French Legation, Tokio, to Edith Lucy, daughter of Dr. Edward Divers, F.R.S., Professor of Chemistry Imperial College, Tokio.

Pim—Fellows.—On March 1, at All Saints' Church, Ennismore Gardens, Edward Hugh Bedford Pim, son of the late Admiral Bedford Pim, M.P., to Amy, daughter of the late Hon. J. I. Fellows and of Mrs. Fellows, of 41 Ennismore Gardens, S.W.

Deaths.

Bottle.—On March 4, at 4 Godwyne Road, Dover, Sophia Agnes, only daughter of Mr. Alex. Bottle, J.P., pharmaceutical chemist.

Coatsworth.—On February 27, at Leeds, Mrs. Coatsworth, wife of Mr. Thos. Coatsworth, chemist and druggist, Yeadon, and formerly of North Road, Darlington.

Mander.—On February 28, at St. Thomas's Hospital, Mr. Charles Mander, chemist's assistant. Aged 21. Mr. Mander, who died after undergoing an operation for an internal injury, served his apprenticeship with Mr. J. W. Axford, chemist and druggist, Coventry. He was afterwards at Ventnor, Isle of Wight, and at the time of his death was studying for the Minor.

Sergeant.—At Lewisham Road, S.E., on February 27, Mr. John Clement Sargeant, for many years associated with the Society of Apothecaries.

Sumner.—We announced last week the death of Mr. Robert Sumner, wholesale druggist, of Liverpool. The gentleman whose death was notified to us was not a member of the firm of wholesale druggists of 50A Lord Street, Liverpool. Mr Robert Sumner, the founder of that firm, died some years ago, and there is no one of that name now connected with the firm. We were misled by the fact that the name of Mr. Robert Sumner, 50A Lord Street, Liverpool, is still retained on the register of chemists and druggists.

Two eminent Belgian pharmacists passed away during the month of February. One was M. Norbert Gille and the other M Louis Creteur, Honorary President of the Royal Society of Pharmacy of Brussels. Both of these gentlemen were prominent and eloquent speakers at the International Congress of Pharmacy which met at Brussels in 1885, and they will be remembered by all the foreign visitors who took part in the proceedings on that occasion.

Wills of Deceased Chemists.

Bulley.—The will of Mr. William Hy. Bulley, 26 High Street, Exeter, and Heavitree, Devon, chemist and druggist, who died on May 12, 1898, has been proved at the District Probate Registry by Mr Horace W. Bulley, the son and executor of the testator, whose estate was sworn at 422*l* 10*s*.

Cadman.—The will, with a codicil, of Mr. D. C. Cadman, pharmaceutical chemist, 47 Montpelier Vale, formerly 6 Royal Parade, Blackheath, &c., who died on October 5, 1898, has been proved by Mrs. Cadman, the widow, Mr. C. T Cadman, chemist, 47 Montpelier Vale, the son, and Mr. E. G. Sheppard, solicitor, 19 Stockwell Park Road, the nephew of the testator, whose estate is sworn at 8 664*l*. 6*s*. 11*d*., of which 6 534*l*. 8*s*. 6*d*. is net personalty.

Frost.—The will of Mr. R. K. Frost, chemist and druggist Sunderland, who died on December 26, 1897, has been proved by Mr. J. Y. Short and Mr. John Taylor, both of Sunderland. The testator's personal estate was sworn at 3,141*l*. 13*s*. 8*d*. gross, and 3,103*l*. 11*s*. 8*d*. net.

Gibbins.—The gross value of the estate of the late Mr. Thomas Henry Gibbins, chemist and druggist, 6 Caledonian Road, N., is sworn at 20*l*. He having died intestate and a widower, letters of administration have been granted to his sister, Mrs. M. J. Chaplin, 6 Caledonian Road.

Hayton—The late Mr. W. Pattinson Hayton, chemist and druggist, Market Street, Rainhill, having died intestate, letters of administration to his estate have been granted in London to his widow, Mrs. Annie Hayton, by whom the deceased's estate was sworn at 332*l*. 5*s* 10*d*.

King.—The will of Mr. W. G. King, chemist and druggist Market Drayton, who died on May 15, has been proved at Shrewsbury by Mr. Sidney Russell King, son and surviving executor of the testator, whose estate was sworn at 7,478*l*., of which 6,252*l*. 9*s*. 5*d*. is net personalty.

Martin.—Letters of administration to the estate of Mr. Richard Martin, chemist and druggist, Maidenhead, who died on February 26, 1898, a widower and intestate, have been granted to his daughter, Miss Florence Martin. The deceased's estate was sworn at 2,140*l*.

Matthews.—The will of the late Mr. Theophilus Matthews, of the firm of Matthews & Son, chemists and druggists, 167 Cambridge Road, E., has been proved by Mr. Joseph Sydney Matthews, the executor. The testator's estate was sworn at 1,045*l* 6*s*. 8*d*.

Mitchell.—Letters of administration to the estate of the late Mr. Robt H Mitchell, chemist and druggist, St. Oswald Street, Liverpool, who died on March 7, 1898, have been granted to his widow, Mrs Maggie Mitchell, by whom the testator's gross estate was sworn at 585*l* 1*s*. 11*d*.

Pride.—Letters of administration to the estate of Mr. A. E. Pride, chemist and druggist, 22 Church Street, Nottingham, who died on January 7, 1898, intestate, have been granted to his widow, Mrs. E. A. Pride, by whom the deceased's estate was sworn at 158*l*. 10*s*.

Pugh.—The will of Mr. George Pugh, chemist and druggist 71 Milsom Road, West Kensington Park, who died on February 24, 1898, has been proved by Mrs. Laura J. Thoday, the executrix. The testator's estate was sworn at 1,980*l*. 11*s*. 10*d*., of which 1,915*l*. 16*s*. 10*d*. is net personalty.

Rippon.—The will of Mr. R. O. Rippon, chemist, Great Berkhampstead, who died on October 7, 1898, has been proved by Mrs. M. C Rippon, the widow. The testator's estate is sworn at 715*l*. 10*s*., of which 486*l*. 4*s*. 3*d*. is net personalty.

Savage.—The late Mr. George Frederick Savage, chemist and druggist, 54 Addison Street, Nottingham, having died intestate, letters of administration to his estate have been granted to his widow, Mrs. Amelia M. M. Savage, by whom the deceased's personalty was sworn at 1,042*l*. 7*s*. 10*d*.

Smith.—The will of Mr. G. F Smith, chemist and druggist, Ruskin Street, Walton, Liverpool, has been proved by Mrs. Catherine Smith, widow and sole executrix. The estate was sworn at 172*l*.

The Poisons Regulations.

Difficulties and Suggestions.

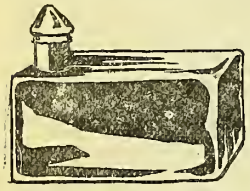
We offer Five Guineas in prizes for suggestions or descriptions of methods in use for the storage and sale of poisons according to the new regulations. Subscribers and their employés may compete. The competition is now closed.

BEFORE taking up again the report on the suggestions received in this competition, it will be useful to note several ideas which have appeared in the daily newspapers during the past week in consequence of the death of Dr. A. K. H. Boyd, the St. Andrews divine, from carbolic-acid poisoning.

The Dean of Salisbury, writing to the *Times*, says that "if the poison-alarm signal, invented by a skilful chemist, Mr. Orchard, of Salisbury, were generally used, we should not have heard of such deaths as 'A. K. H. B.'s' and Professor Tyndall's. A bell fastened to a capped cork, so that the bottle to which it is attached cannot be taken up without a gentle sound, secures against the use of poison by mistake, even in the dark." We described this device several years ago.

Mr. John Martin, 300 Old Kent Road, S E., sends to the *Daily Chronicle* an account and diagram of a "safety" poison-bottle which he has designed to meet the requirements of the new poisons regulation. The bottle is triangular, two of the sides bearing the word "Poison" in raised letters upon a rough ground. On the third side the raised tablet is for affixing special label.

The inventor of the waist-like bottle made by Hearns (Limited) calls the attention of the *Daily News* to the good points of his bottle.



A Shepherd's Bush lady tells the *Morning Leader* about the bottle figured here. The neck of it is at the end, and the eccentric form would in daylight obtrude the fact upon one that its contents were poison. At night the bottle would be equally recognisable by its "feel"

Mr. Montague Crackanthorpe, Q C, pleads in the *Daily Graphic* for the spiked cork. He says this is "the best safeguard against such a deplorable mistake as made by the late Dr. Boyd. Now that diluted carbolic acid is so generally used for antiseptic purposes, it is high time that both patients and nurses should be able to distinguish it by some infallible test. The spiked cork is such a test. If not at present on the market, let it be widely asked for, and the demand will soon create the supply." It is on the market, having been patented by Foster & Crowley, and it is made by the Patent Stopper, Box and Stamp Company (Limited), 13 Victoria Street, S W. We figure the cork. Such corks have been used for several years by Messrs. F. Calvert & Co.



Another newspaper observes that immediately after the death of Professor Tyndall inventors racked their brains to meet the danger, and the Patent Office was besieged by ingenious people seeking patents for poison-bottle distinguishing devices. Whenever a fatality of this kind is reported the epidemic recurs. The patent officials now confidently expect another big boom which will swell the figures past all previous records.

We may say that a host of inventors have called upon us with their notions, and some of them will be described and illustrated in this section.

Advantages of the Regulations to the Chemist.

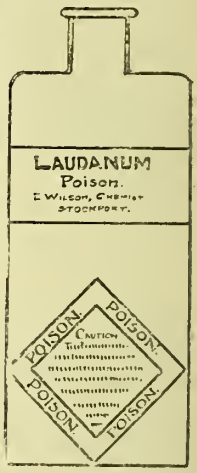
(1) They will be the means of establishing him as a man above the proprietor of a drug-store, inasmuch that he, having passed the Society's examinations, is a trustworthy man to dispense and sell such poisons. (2) He will be able to get a better price for such preparations, and by so doing can compete with the stores in other lines, such as patent medicines, &c.

The best way to make the fact known to the public would be (1) for all chemists in every town to combine in issuing a circular stating fully the new regulations, the need of such regulations, and the advantages that the public will derive from them; (2) also they should issue a list of the commoner poisons used in the household for cleaning purposes, stating that these can only be obtained from fully-qualified chemists, and such articles in the future must be sent out in poison-bottles [which, of course, is erroneous.—Ed. *C. & D.*].

Gateshead. J. S. W. Robinson.

A Specially-designed Label.

I trust Mr. Stooke possesses a good sized bottle-room, for it seems to me that if he intends giving a poison-bottle in place of each bottle brought to his shop for poisons, he will require one; if, for the short time the regulations have been in force, I had done so, I should already have had a large and miscellaneous stock on hand. I cannot afford either to give the required number of bottles or displease my customers by charging them. Take a case of this sort—a recipe for a common domestic cough-mixture, which I have no doubt my Lancashire *confrères* mix every day, and for which a quart-bottle is brought (an ordinary oval-shaped one):—



1*d.* laudanum
1*d.* oil of aniseed
1*d.* oil of peppermint
1*d.* paregoric
1*d.* white wine-vinegar

Made up to 1 quart with water.

Am I to exchange this bottle, for which the ragman gives about 2*d.* or 3*d.* a dozen, for a 40-oz. fluted poison-bottle? No, Sir, that would be worse business than patent medicines [and quite unnecessary, so far as the poisons regulations are concerned, which apply to retail sales of liniments, embrocations, and lotions containing scheduled poisons. A cough-mixture is neither.—Ed. *C. & D.*]. A far better method is to have a specially-designed label, which, affixed to the customer's own bottle, would make it distinguishable to touch. This is accomplished by having either a raised-surface label or raised letters of some startling colour, to be affixed to the bottle on a line with the bottom, where a bottle is usually taken hold of, after the style here shown.

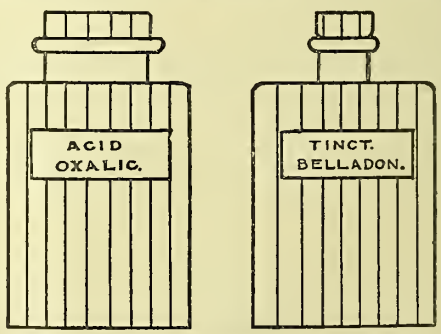
Stockport. E. Wilson.

The Storing of Poisons.

All poisons which are in the form of powder or crystal to be stored in wide-mouth fluted bottles. The glass to be green, and the label to be let in.

A label consisting of a white ground with red letters would be very distinguishable.

Liquids to be stored in bottles of the same material and manner of label, with narrow mouth, the stopper to be fluted also. These poisons to be stored in a cupboard secluded from the sight of customers, and kept under lock and key by the proprietor or manager.



Gateshead. J. S. W. Robinson.

The Death's Head.

1. Each bottle, box, or vessel to have a poison-label attached (like the figure), and name of article.



2. (*a*) Bottle, box, &c., to be labelled as above, and tied down or capped over with red cloth or paper.

(*b*) Bottles in shop labelled "Poison," as above, and in addition a slip of corrugated paper, covered with red paper, glued neatly round lower half of bottle.

(*c*) Poison-cupboard, with shelves for large and small bottles arranged in order, as alkaloids and preparations, poisonous minerals, tinctures, extracts, &c.

A. W. H. (194/25.)

The Strip of Sandpaper.



As five guineas would be acceptable, I beg to suggest, for Clause 2 of the regulations, that chemists who do not wish to buy new poison-bottles for their shelves, and at the same time do not wish to render their old bottles unsightly, should paste a piece of sandpaper on the bottle, as illustrated. This arrangement would hardly be noticeable, and yet would be distinguishable to the touch, as, on taking bottle from shelf, the fingers would naturally be placed on the sandpaper.

Weybridge. E. C. Spurge.

Varieties.

A stoppered octagon-shaped bottle, in either blue or white glass (such as are now in common use for corks), but with the fluting rather more prominent, would be difficult to beat as a shop-stock bottle. Such a bottle may possibly be on the market, but I have not seen one.

The present blue "octagon" bottles I should deem satisfactory for retail sales, and I think labels like this one would be good.

Caution.—This bottle contains poison, which must not be taken internally.

The Lotion.

JOHN BLANK,
DULL TOWN.

This, of course, obviates any danger of forgetting to affix the notice, which might be done if a separate label is used.

W. W. (193/2) (*Hors Concours*).

I would suggest that all shop-bottles containing scheduled poisons be covered to the neck with bright red enamel, leaving the gold label and also a part of the back of the bottle so that contents may be seen; droppings would also run down this part of the bottle. The front of the bottle might have the word "Poison" painted either in black or white upon the red ground. This would act as an effective danger-signal.

Sileby. S. H. Jarvis.

I beg to make the following suggestion as a simple, cheap, and effective method of meeting the new poison regulations:—That long narrow poison-labels be made of sandpaper, of the shape of the cutting figured but varying in length and width.

| | | | | | | **POISON.** | | | | | |

Only the edge need be rough, a thin border of sandpaper being as perceptible as a much thicker one to the touch. Or the sandpaper might be in tapes and cut as required, the word poison being printed at intervals along it. In the reproduction the strokes represent roughing. The slips might be applied round, or along the bottle, and be of a red colour, and one applied each side, or top and bottom if round bottle.

H. Macnaughton-Jones, Jun.

West End Lane, N.W.

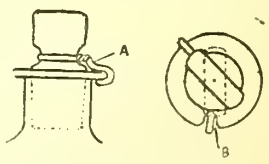
An erratic contributor (89/91) thinks the Pharmaceutical Society deserve credit for their commendable enterprise in so smartly following up the suggestions given them thirty years ago. To have brought about some useful legislation for the benefit of the trade in a little over three decades was a performance hitherto unheard of in the annals of that august body. With regard to Section 2 of the new regulations his habit hitherto had been to keep the bottle or package containing the poison in a red-flannel bag, ornamented with a death's head and cross-bones. This bag was sprinkled profusely with veratrine (to render it distinguishable by smell), and for further security was placed in a locked cupboard in the cellar. The key of this cupboard was kept in the pocket of his wife's Sunday dress. He did not see any necessity to depart from this, his lifelong method, as he had invariably found it thoroughly reliable. True, many customers had obtained their paregoric from the grocer two streets away before he found the cupboard-key, but he always had the consciousness that he had done his duty and been careful of the public safety. With reference to Section 3, he had come to the conclusion that the public were so familiar with the ordinary poison-bottles nowadays that these were really no check for their safety. He relied much more on the ordinary wine or stout bottle, "rendered distinguishable by touch" Various things had been suggested for this purpose, such as sandpaper, corrugated paper, fly-blister, and a composition consisting of putty and small pieces of broken glass, but he flattered himself that he had discovered a process which was vastly superior to either of these. This he called the "birdlime-treatment," and the method was as follows:—A piece of twine with a hanging loop is tied round the neck of the receptacle containing the poisonous embrocation, lotion, or liniment. The container, by preference, should be a round beer or stout bottle, but a square ketchup-bottle with a very narrow neck is most suitable for hartshorn and-oil or other thick emulsive embrocations. Four perpendicular ridges of birdlime are then carefully applied round the outside of the bottle, the twine being used for carrying-purposes. It is at once apparent that by this simple method all the requirements of the Act are carried out, and the safety of the public is assured, for the most captious critic would scarcely deny that such a bottle is distinguishable to touch.

I think the poison regulations have been, and will be, impracticable for various reasons. Mr. Stooke has mentioned one of them. It is an insult to the common sense, respectability, and carefulness of chemists as a body to make these regulations compulsory. I think we can be trusted to look after the interests of the public in this matter—they are our own. If the Pharmaceutical Society is responsible for this new mode it will assist me in deciding not to offer myself for election as a member in response to the circular of Mr. Walter Hills, President. Accidents with chemists are so rare that they are hardly worth noticing. We simply want to be left alone. We are harassed enough already. "Them's my sentiments."

Lewes. W. T. Martin (*Hors Concours*).

Stopper Clip and Cork.

To meet the requirements of Clause 2 (*c*) this is a good arrangement:—(*a*) Stout copper wire with a hook which can pass through a niche in the lip of the bottle (*b*); when a turn of the stopper secures it. The niche can be made with a sharp file.



A. W. Nunn.

Sydenham Road, S E.

P.S.—For some time I have adopted the plan of putting a glass marble in all stock-bottles of liquid poisons.

The blue fluted hexagonal bottle in common use is as good as any. The cork should be capped with a metal disc with indented edge. To illustrate my meaning I enclose a cork to which a brass carpet-nail, the head of which has a sharply indented edge, has been attached by means of a wire pin through the cork. By some such arrangement as this the attention should be arrested whenever the cork is drawn. The label should be white, with "Poison" boldly printed at the top in red letters. The less of other printed matter there is on it the better, and what there is should be black.



Epworth. C. C. Bell.

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No. 2 Pure CRUSHED LINSEED	14/ ✠ cwt.	No. 1 Finest Light Pure PRECIPITATED CHALK	25/ ✠ cwt.
Best Cleaned LINSEED (TEA)	15/ ✠ cwt.	No. 2 Pure PRECIPITATED CHALK	21/ ✠ cwt.
No. 1 Finest Pure FULLER'S EARTH (Light Colour)	15/ ✠ cwt.	Finest Levigated "WHITE EARTH" (Toilet purposes).	18/ ✠ cwt.
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Pure LIQUORICE	/10 lb.	Finest ARROWROOT	1/ lb.

✠ CARRIAGE PAID to Railway Stations within 200 miles of London (or allowance made for distances beyond) on a total weight of 112 lbs. and upwards of above articles. Smaller parcels delivered free on rail London at above prices.

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Several PROSECUTIONS having taken place recently for short weight
SEIDLITZ POWDERS,
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HORA'S P.B.
HAND-WEIGHED GUARANTEED.
PRICE 4/3 PER GROSS,
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WILSON STREET,
LONDON, S.E.

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If you aim at perfection, use
Fletchers' Concentrated Liquors

Editorial Comments.

Competition and Monopoly.

There is a notable article entitled "The Growth of Monopoly in British Industry" in the current number of *The Contemporary Review*. The author (Mr. Henry W.

Macrosty), we are informed, is an active and rising member of the Fabian Society; that is to say, he may be assumed to be committed to the socialistic theory of imposing State-directed control over all kinds of manufacture and commerce as a remedy for the wasteful, and in many respects cruel, competition which now prevails in every branch of business. In this article Mr. Macrosty has collected a large number of facts showing the effect, and suggesting the danger, of the fierce competition with which we are familiar. First he deals with retail trade, and shows how in the "beneficent private war" of trade economic law is on the side of the big battalions and the long purse. The retail trade, he says, is to-day passing through an industrial revolution similar to that which manufactures experienced in the early years of this centnry; and the small shopkeeper is the analogue of the hand-loom worker. The great stores, businesses like Whiteley's, Lipton's, Spiers & Pond's, and the like, obtain an ever-increasing share of trade, and spread by setting up branches in town and country. Lipton's prospectus showed that that firm had 72 branches in London and 181 in the provinces. The capitalisation of stores and trading-companies in the grocery, provision, meat, oil, and drug trades in the two years 1896–97 was over 18,000,000*l.* These and other facts are quoted to show the tendency towards monopoly in the retail trade. Somewhat strangely in this connection, and with the inevitable misapprehension of the information he has gathered, Mr. Macrosty devotes a page to the combinations among chemists and druggists. It is not quite clear whether he thinks that the associations he refers to are further manifestations of "the tendency towards monopoly." The following is his reference to the drug-trade:—

Chemists and druggists, with their quasi-professional status, have a more efficient organisation than any of the other retail trades, and their habit of association into local pharmacentical associations and compulsory membership of the Pharmaceutical Society has made them readier to face their trade problems. In addition to being the poor relations of the medical profession, they are ordinary shopkeepers in relation to their trade in patent medicines and proprietary articles. How far this once lucrative business has suffered from the competition of "drug-stores," grocers, &c, is evident to any one having experience of town and country prices. "The Proprietary Articles Trade Association," consisting of both wholesale and retail chemists, has been formed "to take such steps as the Association may be advised are legal to deal with extreme cutting of prices, and to give advice and render assistance to its members in preventing substitution"—*i.e.*, the pushing of some other article in place of that asked for. The members bind themselves not to sell below fixed wholesale and retail prices:—

"The plan by which prices are secured is simple. . . . The proprietors of the articles upon our list undertake to withhold supplies of their articles from any firm selling any one of them below the minimum prices, or from any firm who, after due notice supplies such a cutter with any of the goods."

After a year's work the Association, in the beginning of 1897, included over 1,700 out of 8,000 retailers, and every wholesale patent-medicine house in London with one exception. It also runs a paper, *The Anti-cutting Record.* Here is a typical advertisement of a firm belonging to the Association:—

"Limit of Cutting. The proprietors hereby give notice to the trade that the limit of 'cutting' prices of ——'s —— has been fixed as under: 6*d.* packets to be sold at not less than 5½*d.* . . . Full prices to be obtained wherever possible. Furthermore, any chemist, grocer, or stores cutting below these prices will be refused supplies direct from ourselves."

Another article is advertised that it "shows a protected profit of 33⅓ per cent." And a third firm, while not joining the Association, announce their intention of meeting the difficulty

"by revising our terms of supply to the trade as from January 1 next, and by making an appeal to all retailers not to sell our 1*s.* articles below 10½*d.*, and to endeavour, by mutual agreement, to make the minimum price 11*d.* . . . asking them at the same time to get full prices when possible, and certainly for bookings."

The local chemists' associations also utilise their organisation for purposes of co-operative purchasing; thus the Plymouth and District Association, in 1897, bought over 1,000*l.* worth of goods in this way. Another co-operative undertaking is the Chemists' Aërated Mineral Waters Association (Limited), which has 4 000 members, all chemists, and eliminates the outside manufacturer by making mineral waters for disposal to members only.

We do not understand what is the argument based on the action of chemists and druggists. Such as it is, it is a fight against monopoly, not a tendency towards it.

Mr Macrosty goes on to show how the competition in the retail trade reacts on the wholesale men, and finally on the manufacturer, and the latter finds himself forced to use against the retailer the same weapon which the retailer has taken up against the consumer—namely, combination. This is the really valuable part of the essay. The tendency to unions, amalgamations, and rings among mannfacturers and producers is very patent. "Single amalgamations," Mr. Macrosty says, "while not entirely excluding competition, control the screw, cotton, thread, salt, alkali, and india-rubber-tyre industries. In other cases a formal or informal agreement of masters fixes prices; thus in the hollow-ware trade (metal utensils) prices are arranged by an informal ring of a dozen Birmingham firms. Similarly there is no open market in antimony, nickel, mercury, lead-pipes, fish-supply, and petroleum." There are great combinations in the paper-making industry, in the engineering-trade, in armour-plate manufacture, in the Birmingham bedstead trade, in the sewing-thread industry, among the Bradford dyers, in the coal-trade, in the shipping-trade, and in other branches of industry. The capital of the companies formed by the amalgamation of various competing firms runs into many millions, and many of the companies pay large dividends All this is very true, and it can be made to look alarming. But Mr. Macrosty entirely fails to prove that there is any real risk in a free-trade country for the great body of consumers. The "tendency towards monopoly" is proved beyond doubt. But that has been present ever since business began. In former times it was secured by the gross misnse of the powers entrusted to the Crown; now it has to be won in a fair field with no favour.

Mr. Macrosty seems to be difficult to please. In the first part of his article he appears to sympathise with the individual trader who is in the course of being crushed by the great company trader; and then when in his danger he finds his feet by combination, the writer is alarmed for the consumer's sake. From a Fabian point of view, however, he is logical enough. Competition wreaks evil all round. If it is allowed free course, it crushes the multitudes who are in the way of the great capitalists; if these poor wretches combine for defence, they tend to become a "ring," a conspiracy against the public weal. There are great and real dangers in the growth of these great businesses, facilitated as it is by our joint-stock and limited-liability laws. If they destroy the individualism of our present trading system, they will sap the life and energy out of the country. But they will not do this. There are abnndant signs that individual traders are fighting the great companies with success. Only last week the chairman of the Civil Service Supply Association apologised for a slight decrease in their sales by pointing out that other traders had learned from them to conduct their businesses on a cash system. And there are many respects in which the individual has advantages. We all see that competition is in many respects

wasteful and cruel; but we are not yet prepared to accept the alternative of an enormously magnified Post Office system, which we understand to be the Fabian millennium.

Optical Examinations.

A comparison of the questions given at the March examination of the Spectacle-makers' Company with those given at the first one, held in November last, is instructive; we print them elsewhere in this issue. It will be noticed that the questions of a medical nature which were so much objected to at the first examination are entirely absent. The last one, relating to spasm of the accommodation, is the only one which may be said to be outside the scope of the optician, and here the candidate is carefully asked to state his reasons for referring such a case to an oculist. This is added, it would appear, so as to avoid any question of what the oculist should do in such cases and to disarm medical criticism. The number of questions has been reduced from fourteen to twelve; this is owing to complaints made by candidates at the last examination that in the time allowed they were unable to finish their papers. These alterations will, we think, tend to improve the scope of the examinations, and we note them with pleasure, as they show that the Company is not too lofty to benefit by criticism. It is due to the publicity we ourselves gave to the last examination, by publishing the experiences of an actual candidate, that many of the alterations have been made. The Master and Dr. H. T. Maw acted as superintendents of the examination last week, and their presence was a sufficient safeguard for the chemists who went in. The examiners were Professor Silvanus Thompson, Mr. Lindsay Johnson, and Mr. Paxton, the latter being assisted by Mr. Dixey and Mr. Wood.

From interviews we have had with chemist candidates, we find that the examination is being conducted in the business-like style which characterised it in November; improvements have been in the direction of promoting the comfort of the candidates. Several of the examiners named above are members of the Optical Committee, and we are not sure that it is a good policy to thus give examiners a controlling influence on the character of the examinations, especially if it be true, as has been asserted, that some of them are scarcely in sympathy with the catholic policy of the company as set forth in the syllabus. The syllabus states that "as it would be exceedingly difficult, and even invidious, to define how far the scheme of the Company should go in including those who deal in other things as well as spectacles, it has been arranged that all those, whether principals or assistants, who can conform to the regulations will be admitted to the Guild, and be granted a diploma of membership." At a recent meeting of the Optical Committee some of its members, who are pure opticians, expressed a wish to make the examinations available to members of their trade only, and so shut out those traders who add the optical business as an auxiliary. The suggestion did not receive support from those members of the Committee who could be called free from trade bias, and it is to be hoped that the objects for which the examination was established will still be adhered to, and that narrow-minded counsels will be discredited.

Some surprise has been expressed at the decision of the Optical Committee to exclude women from its examination, as mentioned in The Chemist and Druggist of February 4 page 229, in connection with the revised syllabus. The arguments used against their admission, so far as we know them, were so puerile that they can hardly permanently prevail. The Company should bring their examinations in line with the majority of examining bodies of the kingdom, none of whom, so far as we are aware, have regretted the step they took in admitting women to their examinations. This question of admitting women to examinations has passed beyond the argument stage, and has become a well-established precedent. The scheme has been carefully thought out, and is calculated to do much good service. It is all the more important, therefore, that it should not be prejudiced in its infancy by an exclusive or a trade-union policy.

Market Matters.

The first two months of this year have been of exceptional interest in the chemical produce and export and import trades, owing to the comparatively large number of articles which have appreciated in value, and in which an unusual amount of business has been done. Ipecacuanha has reached almost unheard-of prices, owing to the scarcity of the drug and sudden buying, which was believed to be speculative, but which turns out to be chiefly for consumption. Cascara sagrada is scarce, and almost double the price it was three months ago; and East India senna is in the same category. Vanilla also looks a strong article, as the supplies appear to be deficient. Quicksilver has advanced 25 per cent., owing to heavy purchases "for China" and by speculators; but it is at present quiet, and while the present holders of the Almadan concession retain it they will not, if speculators are judicious, let the price fall very much. Menthol was an article which looked a month ago like going up, the statistical position favouring that view; but absence of demand and heavy stocks in Japan keep it down. Our Yokohama correspondent's letter last week admirably and temperately summarised the situation. Other articles have been affected, and still need watching, and several are of special interest at the moment. To these we now refer in detail.

Arrowroot.

The hurricane which swept over the West Indies last September did not directly affect many articles connected with the drug-trade, for there are few for which we depend upon the West Indian supply. Of these few arrowroot and ginger are the most important. We obtain the bulk of our supplies of arrowroot from St. Vincent, and that island, unfortunately, was one of the principal sufferers by the hurricane. Every plantation on the island was devastated. Since then the planters have almost turned the corner of the road leading from ruin; but meanwhile a deficiency in the arrowroot-supply exists, and prices to-day are more than double the average. The arrowroot-industry in St. Vincent is concentrated in the hands of some half-dozen planters, who have not hitherto appreciated the value of combination, as for many years past they have worked independently and without any desire to control the output in accordance with the demand. The consequence has been that the price has gradually fallen. The same thing obtained in Natal, and with the same result, practically; for, owing to the unremunerative prices, the arrowroot-industry in Natal is almost expiring, tea and other more profitable commodities having taken its place. About this time last year St. Vincent arrowroot was selling in Mincing Lane to merchants at 1½*d.* per lb.—the lowest price on record. To-day, however, the same quality is selling at 4½*d.* per lb., and it is prophesied that this figure may be doubled. As the new crop is now due, and only meagre quantities have so far come to hand, higher prices are not improbable, especially as it is stated that no further shipments are advised It is also reported that the cultivation of arrowroot is being abandoned in St. Vincent for more remunerative products, such as cocoa; but

should high prices prevail the producers, it is anticipated, will not allow the industry to perish. The following figures, relating to the stocks of all kinds of arrowroot, in barrels, in the London warehouses on February 28, show that the supplies have not been so low in recent years as they are at the present time:—

	1899	1898	1897	1896	1895	1894
Barrels	2,612	9,323	10,183	14,203	10,792	8,560

During February 397 barrels were landed, and 1,546 delivered; the importations for the two months of this year were 482, as compared with 1,712 last year, and the deliveries for the same period were 3,664, against 1,552 barrels for the corresponding period of 1898. The bulk of the St. Vincent stock here is said to be held by three or four of the principal cocoa manufacturers for their own use, so that the position is really worse than it appears to be. The following are official statistics dealing with the exportation of St Vincent arrowroot during recent years, from which it will be seen that though the decline in quantity is only small the value has diminished considerably:—

	1896	1895	1894	1893	1892
Barrels	20,122	26,695	29,119	22,310	23,433
Value, £	22,007	26,960	38,278	50,807	61,313

The year 1892 established a record in the production of arrowroot, and altogether was one of the most prosperous the island had ever seen. Natal arrowroot has little or no influence on our market. The total exports from Natal in 1897 were 496*l.* only, being less than half the exports in 1896. The price of Bermuda ranges from 2*s.* 3*d.* to 2*s.* 6*d.* per lb. in Mincing Lane, but the quantity of this consumed is comparatively small. There is no other root-starch that will replace arrowroot, which bears somewhat the same relation to root-starches generally that isinglass does to gelatin. It contains no more nutriment than other starches, but it has a kindliness towards the gastric mucous membrane which makes it valuable as a food-stuff for the young, feeble, and aged.

Bark and Quinine.

During the past five weeks, fully one-and-a-half million ounces of quinine have been bought and sold in London. Five or six buyers have been concerned in the speculation, and they have bought and sold "spot" and "forward" stuff. May-June delivery has been the favourite, but even November-December has been bought at 1*s.* 4½*d.* per oz. These half-dozen speculators set themselves against the wisdom of all the sellers when they estimate that quinine is bound to be dearer at the end of the year than it is now. It is admitted all round that they are well advised, and the advice in some cases has been so excellent that some after making their bit have quietly retired. Something like 250*l.* profit a day has been made during the past month by sellers; what buyers will make remains to be seen. We have endeavoured to make it quite clear in our market reports that the quinine boom is fictitious in its scope. Two German brands of quinine alone have been greatly involved in the boom. Speculators have a fancy for these—why they cannot tell; but since so much of the "quinine" exists on paper only, one is as good as another for speculative purposes, provided the speculators agree to recognise specific articles. It is interesting to note the immediate effects of the speculation upon production. In the first place, there is no doubt whatever that the German makers have been buying every scrap of bark they can lay their hands on, and they want it urgently, which means that they have orders for quinine to fill. Professedly they do not supply speculators, and actually speculation stimulates production. That seems undeniable. But how much stimulus? The quinine landed in London last month amounted to 112,176 oz., against speculative sales of over a million, some of which were "forward." The January February importations and stocks (at the end of Febrnary) of quinine sulphate for the last five years are as follows (in lbs.):—

	1899	1898	1897	1893	1895
Imports ...	15,402	10,811	4,556	5,293	2,750
Stocks ...	105,766	87,502	120,648	163,063	200,483

These figures show that there is enough stock in London to meet the transactions of speculators, which, though totalling a million and a half ounces, do not leave much in excess of half a million to be provided. A good deal of old quinine has changed hands. Various suggestions are put forward to strengthen the position, such as the statement that America will be buying soon; America is always buying, and could not afford to do otherwise seeing that she is the largest and steadiest consumer. The substantial justification of a rise in quinine is the fall in bark imports, which are very low, the Board of Trade figures for the past three years being:—

	1899	1898	1897	
Imported ...	4,186	10,493	2,984	cwt.
Exported ...	4,754	2,503	799	„

These export figures substantiate our statement regarding exceptional German purchases this year, which have been as four to one by our other foreign buyers. The exports are also greater than the imports, which would be bad, were our stock on February 28 (20,061 bales) not better than on February 28, 1898 (19,293 bales), but that is not much to boast about in view of the decrease in the Java shipments. The latter decrease is too sudden to be natural. As far as we know, cinchona cultivation is not on the decline in Java, and it is actually extending in Ceylon, whose shipments this year are much better than they have been for four years, so that, although the supplies of bark at present look scanty, they are not so famine-stricken as to justify the extremely pessimistic views which obtain in some quarters. There is an all-round feeling that quinine has been too cheap for the bark-producer, quinine manufacturer, wholesaler, retailer, and consumer, and if it is not made too dear—*i.e.*, much above 1*s.* 4*d.* per oz.—it will be of benefit all round.

Camphor.

The position of this article remains strong, but it is felt that we are approaching the end of the advance. At this time of the year purchases for domestic purposes are generally made, but since camphor became of technical importance, much of it being used in the manufacture of celluloid, a new basis is supplied for calculations. The utility of celluloid is increasing day by day, and nothing so far has been found to take the place of the 10 per cent. or so of camphor which it contains. There has been little speculation in the heavy purchases made recently; camphor-refiners bought well, and the advance is commensurate with supply and demand. The subjoined figures show the statistical position in London for January-February and stocks on February 28 in the respective years:—

	1899	1898	1897	1896	1895
Imports ...	775	134	1,934	446	530
Deliveries ...	1,701	368	1,991	3,045	451
Stocks ...	4,968	11,204	11,875	13,674	4,379

The stock is, therefore, much lower now than it has been for five years.

Cod-liver Oil.

A feeling, which almost amounts to a hope, has lately prevailed in commercial circles that the Norwegian cod-fishing might turn out badly this season. The hope is dead,

and, unless a storm disturbs the fishing now proceeding in Lofoten, there will be sufficient medicinal oil produced there during the next few weeks to last the world for a year. Our Bergen correspondent, whose weekly advices are noted for their accuracy, informs us that although the catch is below the average the fish are in much better condition than they usually are. The official figures up to February 28, inclusive, are as follows:—

	1899	1898	1897	1896
Cod... ...	3,900,000	2,900,000	6,200,000	2,800,000
Barrels oil...	3,800	1,620	4,640	1,066

The oil in this case is unrefined. Although the livers are of fine quality it happened at the beginning of the season that a good many coal fish were caught along with the cod, and their livers got along with the cod's in some cases. This accounts for the high odour and taste of the first new oils received in the English market. In any case it is well for buyers to note that it is good policy not to make the first oil the criterion for the rest of the season, as the Lofoten fishing always yields the best oil, and it does not begin as a rule until a week or ten days after the first samples of new oil are received in this country. The present market position of the oil is weak.

Otto of Rose.

There is no article which is more precarious than the expensive scent which we import chiefly from the Balkans. Last year's crop was good, and prices were low, so low that we fear the effect upon the Bulgarian peasantry will be deplorable. Up till a few years ago the Bulgarian peasant otto-distillers did not dream of sophisticating their produce, any "mixing" that was done being accomplished by exporters. Now, however, the peasants (who, after all, are half Orientals) have learned to increase the yield by putting something else in the pot than rose-leaves, and although last year an improvement in this respect was noticeable, still there was a great deal of adulterated otto left in the hands of peasant distillers here and there. Several houses have become noted for the purity of their otto, and these we understand had bought all the pure stuff from the peasant distillers, and this was concentrated into a few hands in Kezanlik. Holders have been anticipating a demand, with probably higher prices, for business has been quiet this year, and a 10 per-cent. advance is actually spoken of; but we now learn from a correspondent out there that last week an important buyer appeared in the market, and instead of buying the pure otto available in Kezanlik, the agent went to peasants in several districts and made purchases equal to 1,000 T. oz., at 10*s* to 14*s* per T. oz. Our correspondent gives us the name of the firm (which we prefer not to mention at present), and adds:—

> All the distillers of pure otto, as well as the jobbers and some of the principal firms in Kezanlik, are horrified by the conduct of the firm, especially as this firm export their otto to France, Germany, England, and America, with the recommendation of "extra fine." I may say that at present the weather is going favourably for the rose-trees, and it is almost evident that next May we will have a fine crop. Towards the end of March all the pure otto which is in the hands of the jobbers at Kezanlik will be bought up, as the principal local firms have during the past week begun to buy pure otto from the jobbers at a price varying between 19*s*. and 21*s*. the T. oz.

The otto-trade is quiet in London just now, one enterprising Kezanlik house having some time ago filled up many of the principal buyers. This house is amongst those who have been buying well in Kezanlik during the past fortnight *Verb. sap. sat.*

The Metric System.

The Decimal Association, supported by a number of Chambers of Commerce, Educational Institutions, and Trades Unions, will be received by deputation by the President of the Board of Trade on March 22 The deputation will urge upon the Government the desirability of the early compulsory adoption of the metric system. January 1, 1901, is suggested as a suitable date for the introduction of the new system.

No date could be more happily chosen. There is, however very little probability of the Government advocating, or of Parliament consenting to, a revolution of so far-reaching a character being effected within the time indicated. It is now nearly four years since the Select Committee of the House of Commons reported in favour of the compulsory adoption of the system within two years. All that came of that Committee's report was the Act of 1898 legalising the use of metric weights and measures. That was something, but it was a scarcely appreciable step in comparison with the giant stride of the proposed compulsory Act. Certainly if the reform is ever to be accomplished, a short period of suspense between the enactment and the enforcement of the system will be the wisest course to adopt; ten years' notification would not make the change any easier when it came than a single twelve-months' warning.

The theoretical superiority of the metric system over the curious agglomeration of survivals which constitutes the British system of weights and measures needs no proving, and it can hardly be doubted that the frequent consular complaints of loss of trade to this country, owing to the inability of foreigners to comprehend our pounds, hundredweights, yards, gallons, and moneys, are substantial, though it must be admitted that concrete facts in support of this allegation are very rarely given. Moreover, it has to be remembered that some of our largest customers such as the United States and our colonies, are familiar with our present weights and measures, and would have to be educated up to the metric system. Probably they would follow our lead in time, but until they did so merchants would have to compile their price-lists according to both schemes, and if they would only do so now, giving the countries to whom the metric system comes natural the opportunity of ordering under it, there would be really very little ground for the change. We sympathise to a great extent with the desire of the Decimal Association to force the metric system on this country, but, failing success in this action, that body might do good immediate service to our export-business by direct communications with those who conduct it. Definite evidence of the injury to our trade, consequent on the obstinate adherence to the old-fashioned system, illustrations of the conversion of price-lists from one system to the other, and perhaps a register of clerks qualified to carry out such conversions, would be effective. Another thing the Decimal Association might do would be to establish in the West-end of London, and perhaps in other large cities, one or more tradesmen pledged to sell tea, sugar, silks, and drugs only by the kilo., the litre, and the metre. Such an object-lesson would, sooner than any other process, educate the people to a comprehension of the system, and the Association should concentrate its efforts on securing customers for businesses so conducted.

BUSINESS-BRIBES.

The London Chamber of Commerce have just published a report, prepared by a special committee appointed by the Chamber to consider secret commissions in trade. Mr. David Howard, of the well-known chemical firm, was Chairman of

the committee, and Mr. Walter Hazell, M P., was the Deputy-Chairman. Twenty of the trade Sections of the Chamber were represented on the committee. The information collected, which is mostly given anonymously, convinced the committee that secret commissions in various forms are prevalent in almost all trades and professions, and that in some trades the practice is increasing. They do not, however, take a hopeless view of the conditions; they believe that the discussion of the subject, and the publicity of some cases before the Law Courts, have already done some good; and they remind us that there was a time, not so very long ago, when even the Judges, members of Parliament, and officials in Government Departments were open to bribes. They leave the Chamber to consider whether legislation should be initiated, but they point out considerations both for and against such action. A principal difficulty would be to define the offences with adequate breadth without including acts of an innocent or trivial character. Meanwhile they urge that principals should more frequently enforce their civil rights in this matter. The committee are advised that masters may recover from their servants or agents everything received by them by way of secret commissions in the course of their service or agency, also that they may, as a general rule, dismiss servants or agents who have received and not disclosed a bribe without notice, and may repudiate contracts obtained through bribes, or may have them amended. They strongly recommend masters, householders, and heads of institutions to make it quite clear to their employés that they will not allow such commissions. Among the evidence given to them we notice that of a pharmaceutical chemist, who stated that "some commissions are given by chemists to medical men on their prescriptions supplied to patients, in some cases amounting to from 25 to 50 per cent. on the price charged by the dispensing chemist." A valuable section of the report is an appendix explaining the law relating to such commissions, and giving extracts of recent cases, by Mr. T. W. Haycraft, B.A., barrister-at-law.

CARBOLIC ACID NOT A POISON.

The tragic death of the late Dr. A. K. H. Boyd, which has been so fully reported and so freely commented on in the papers during the past week, has called forth multitudes of suggestions for "something to be done" to regulate the conditions under which poisons are sold. No paper, however, that we have seen has pointed out that something has been done within the last few weeks, though paragraphs congratulating the public on the new poisons regulations had only a few days previously gone the round of the press; nor has it been pointed out by anyone that the substance which killed Dr. Boyd is one which, in the opinion of the Lords of the Privy Council, would not have required even the moderate precautions which are stipulated in the poisons regulations. The bottles in which the sleeping-draughts and the carbolic-acid lotion (or liquid carbolic acid, as it is stated to have been in one of the reports) were contained were, we are told, quite distinct in size and colour, and were properly labelled, but it does not appear that the carbolic-bottle was in any respect distinguishable by the touch. Of course the law does not require that carbolic acid or carbolic-acid lotion should be so distinguishable, and it is well to bear this in mind in anticipation of any future Poisons Bill. A fluted or corrugated bottle would have been of no avail in the case of Dr. Boyd, as he took the lotion without removing the label, but it is quite possible that in another similar case a bottle "distinguishable by touch" would save a life. But to ensure the adoption of such a safeguard carbolic acid must be scheduled. This is the most important lesson we can draw from the sad accident, and we commend it especially to the Privy Council.

A PNEUMONIA ANTITOXIN.

A telegraphic message from Berlin reports the discovery by Dr. Wassermann (a pupil of Koch) of an antitoxin for the treatment of pneumonia. Details are lacking, but the message indicates that the antitoxin is an extract of the red bone-marrow of subjects who have died from pneumonia. This extract has been tried on mice suffering from pneumonia, and it has cured them. The gulf between mice and men has still to be crossed. Dr. Wassermann is hopeful.

SHIPPING RATES.

The report of the South African Mercantile Association for 1898 has just been issued, and will be laid before the annual meeting of the members to be held on April 11. The report expresses satisfaction with the progress made by the Association during the past year. Though their efforts with regard to the Cape mail contracts were not entirely successful, it is believed that an impression has been made which will be of lasting benefit. A very successful meeting was held under the auspices of the Chamber of Commerce at Manchester, in October last, and a similar meeting is to be held in Birmingham on an early date. The support so far given to the Association's proposal for the appointment of a Select Parliamentary Committee to inquire into the operations of shipping-rings is so good that some definite steps will be taken during the present Session. At the annual meeting a suggestion will be submitted to change the title to "The British Mercantile League," the idea being to extend the scope of the Association's operations, and to confine its objects to the remedy of the freight-grievances of British traders in connection with any of the ocean-trade routes. If this is carried out it is believed that there will be a large accession of new members.

SOUTH AMERICAN TRADE.

We are indebted to the Secretary of the Board of Trade for a copy of the fourth report by Mr. T. Worthington on his recent visit to South America. We have also seen the specimens of goods obtained by Mr. Worthington during his visit. There is little in either to interest the drug and chemical trades. The report can be obtained from the Queen's printers for 3*d*. In it we observe that Mr. Worthington finds the use of aniline dyes to be growing in Rio. The dyes are imported from Germany, and one house keeps a traveller on the coast—an expert who explains the methods of using the dyes, and attends to complaints, corrects errors, &c. He gets most of the trade. Sulphuric acid, for bleaching-purposes, is imported from England, but an inferior quality is made locally. Zinc white, in barrels, is imported to a considerable extent, more so than white lead. The English make is said to be too dear, and the best mark imported is French "Veille Montagne," the poorer qualities being German. It is variously reduced, according to price, from 30 per cent. to 40 per cent. commonly. Red lead is imported from England and the Continent, also variously reduced according to price. A certain amount of paint is mixed and put up in drums, sulphate of barytes forming the base, but the majority of buyers mix their own, and use zinc white as the basis. As regards imitations of trade-marks, Mr. Worthington finds that two different imitators of Apollinaris water have paid fines but go on cheerfully with their fraud. Old Apollinaris-water bottles are in strong demand. We are undoubtedly greatly handicapped in our relations with buyers in the use of English money, weights, and measures. There may be a few articles where we have impressed our own system into a custom, but in the vast majority of instances the adoption of the metric system of weights and measures, and the twentieth part of a sovereign as a unit, with cents thereof, for money reckonings, would be of the greatest advantage.

Otto of Rose.

ROSE-GATHERING in South-Eastern Europe commences in May. This year's crop is likely to be a good one. The rose is grown commercially in many parts of the world, but Bulgaria and Roumania are the chief producing centres.



Rose-gathering in Bulgaria.

The Balkan region is the rose-garden of the world. A large garden it is, one district 120 miles long by 40 miles wide being one vast rose-field. The rose-shrubs mature in three years out there, and continue to give prolific crops for five years longer, when the quality and the quantity of the flowers begin to deteriorate, then they are rooted up. The harvest lasts about eight weeks (from the middle of May to the middle of July), and gives employment to many thousands of people, mostly women and girls. The plucking of the flowers begins at daybreak, when the dew is on the leaves, and is continued until 10 or 11 o'clock, or during cloudy days all day long. When the sun is shining brightly labour is discontinued toward noon, as otto made from roses gathered during the heat of the day is inferior.

Each picker carries a 2-bushel basket, and when they are full the baskets are emptied into sacks and transported to the distilleries. It is estimated that a garden of one acre will produce 100 lbs. of roses every morning for three weeks or so.

The distilleries are in most cases mere sheds, but are sufficient for all practical purposes. Sometimes the walls are of brick, and occasionally of wood. On one side stand the stills in rows. These are copper alembics about 3 feet in height, with a brick furnace underneath. Each still has a capacity of 20 gallons, but for a charge only 15 gallons of water and 22 lbs. or so of roses are used. The first distillation lasts an hour, and produces only rose-water. This is returned to the still with a fresh supply of rose-petals and on this second and subsequent distillations the water carries with it more otto than will remain in solution, so as the distillate cools the otto separates, floats on the surface, and is subsequently removed. Some kinds of roses produce otto in greater abundance than others, and it has been found by experience that the season has much to do with the quantity of otto, a humid spring with intervals of warm sunshine causing the petals to yield more liberally than is the case in a dry, hot season. In Bulgaria it is estimated that 3,000 kilos. of rose-leaves produce 1 kilo. of otto, and this is the yield of about 2½ acres. In France the production is about the same, and it is computed that about 400,000 roses are necessary to produce 1 oz. of the oil. In Algeria the roses are much less productive, but in Cashmere it is estimated that from 1,500 to 2,000 lbs. of petals produce 1 lb. of otto. Only the red rose is used for otto; the white and yellow varieties, if as fragrant, are not so profitable to the distillers.



A Bulgarian Otto-of-rose Distillery

Oil of Tangerine Orange.

By E. J. Parry, B.Sc., F.I.C.

THE oil from Tangerine oranges differs in its physical properties in a marked way from that of the ordinary sweet and bitter oranges. A sample I have recently examined, and which I feel sure is absolutely pure, had a sp gr. ·8589 at 15·5°, and an optical rotation in 100-mm. tube of + 70° 47′. These figures are in close agreement with those given by previous observers for mandarin oil, for which Schimmel gives ·854 to ·858 and + 65° to + 75° respectively. On exposure to a very low temperature for two days, the oil deposited a small quantity of fine yellow needles crystallising in rosettes. These were separated and dried, and once crystallised from dilute alcohol. They still retained their yellow colour, but were not quite pure, as shown by their somewhat irregular melting-point—about 70°. I am endeavouring to obtain a further supply of the crystals.

Festivities.

Edinburgh Assistants' Supper.

The Edinburgh Chemists', Assistants', and Apprentices' Association had their annual supper in the Imperial Hotel, on Friday, March 3. Mr. G. H. C. Rowland (President) was in the chair, and the company numbered more than sixty, including Messrs. Currie, Dott, McLaren, Boa, Lunan, McDougall, Macpherson, Duncan, Coull, Lothian, Cowie, Guyer, &c., and apologies had been received from Dr. Dobbin, and Messrs. Ewing, Fisher, Henry, R. Aitken, W. Aitken, and Forret. The usual toasts followed the dinner. In proposing "The Pharmaceutical Society," Mr. Fraser McDiarmid spoke rather critically of the draft Pharmacy Bill. He thought it was asking too much to expect the monopoly of medicines therein suggested. If the draft stopped at the company clause, there might have been some chance of a general agreement. One thing they ought to insist upon was that the discussions in the Council on all these topics should be open and public. They, as members, were not kept sufficiently informed as to what was going on. They should have had the views of the members of Council and the arguments *pro* and *con* for the published draft. It seemed impossible to believe that a body of men like the Council could be unanimous in favour of such a document. It would be a great improvement if the Council could be made more representative of all classes of pharmacists. Mr. George Lunan, in acknowledging the toast, said their criticism should be directed not to faultfinding but to making the most of what was suggested. The candid critic, who was often a nuisance, was a good deal in evidence. The toast of the Association was proposed by Mr. J. Lothian (Glasgow), who said its success was all the more remarkable when it was considered that, Edinburgh being an emporium for assistants who move southwards as soon as they qualify, its membership is an ever-changing one. He narrated in some detail what the Association had done; and the Chairman, in replying, gave numerous examples of the high positions now occupied by former members. He also intimated that Mr. D. B. Dott had kindly offered a prize of one guinea for three years for excellence in knowledge of elementary physics. Other toasts were:—"The Founders and Original Members," by George Sinclair (ex-President), replied to by Parish Councillor D. McLaren (first Vice-President); "Edinburgh District Chemists' Trade Association," proposed by Mr. J. Rutherford Hill and replied to by Mr. C. A. Macpherson; "The Ladies," proposed by Mr. J. D. Sinclair and replied to by Mr. Boa; and "The Chairman," proposed by Mr. Currie. An excellent programme of vocal and instrumental music was contributed by Messrs. Duncan, Tait, Rae, Husband, Campbell, and Horsburgh, Mr. J. A. Crichton acting as accompanist.

The following was the menu; and we also append the designs on the card:—

INDEX CIBARIORUM.

Decocta.
Jus scoticum.
Jus testudinis. ("De jure si non de facto.")

Pisces.
Gadus morrhua c. condimento ostrearum.
Segmenta fricta.

Carnes.
Bubula assa.
Bubula salita olere. } "Nil desperandum."
Ovilla assa.
Bubuli frusti placentæ.
Gallina coctâ c. pernâ fumosâ. } "E pluribus, unum."

Crusta.
Fructuum.
Confectionis aurantii recentis. } "Dulcia dulcibus."

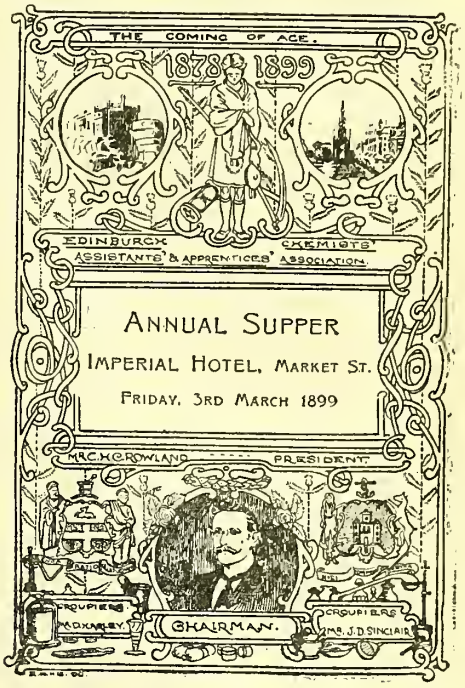
Glutinum purificatum (de magistro Coull).

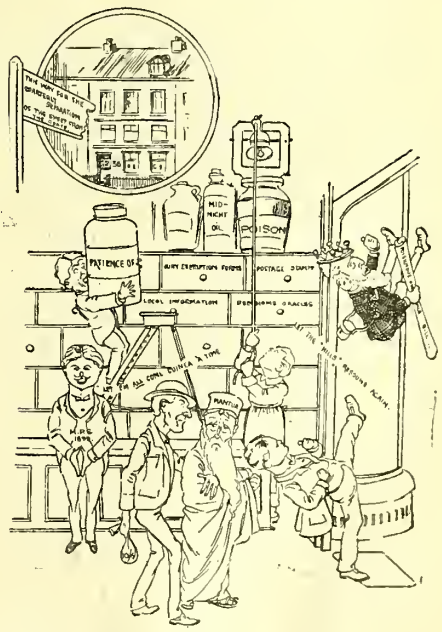
Crustula varia. "Jam satis."

Caseus et Apium graveolens.

Secunda mensa. Poma, nuces.

Potiones. (P.r.n. S.o.s.) "Dum vivo, bibo."
Aqua fontis.
Aquæ effervescentes (Kola, Lemonata, &c.). } "De gustibus non disputandum est."
Spiritus frumenti ("Ros Montis Lomondi").
("Ecclesia antiqua.")
Vinum Rubellum vel Campanicum. } "In medio tutissimus ibis."
Cerevisia lupulata (vulgo Bass).
"Ne plus ultra."





Hatrick's Social.

The employés and friends of Messrs. W. & R. Hatrick & Co., wholesale druggists, Glasgow, had a social meeting and dance in the Sauchiehall Rooms on Friday evening, March 3. Mr. William Lindsay Hatrick, managing partner of the firm, presided. Dancing was commenced at 8.30, and was kept up with vigour till an early hour in the morning, to the

strains of Mr. Russel's petite band, the duties of M.C. being well discharged by Mr. James Kirke. Songs, &c., were contributed in the course of the evening by Mr. W. L. Currie (President of the Glasgow and West of Scotland Pharmaceutical Association), and Messrs. Hislop, Brown, Alexander, McFie, and others.

London Chemists' Assistants Dine.

The annnal dinner of the Chemists' Assistants' Association took place on March 2, in the King's Hall, Holborn Restaurant, Mr. F. W. Gamble (the President of the Association) in the chair. The company numbered close on 300, and included Sir J. Crichton Browne, Mr. Walter Hills, Dr. Attfield, Dr. Symes, Mr. C. B. Allen, Mr. W. Warren, and Mr. J. F. Harrington. After the toast of "The Queen," Mr. Hymans proposed "The Medical Profession," which he characterised as a noble profession, and instanced the heroic devotion some of its members had displayed in the illness of Mr. Rudyard Kipling. Sir J. Crichton Browne replied. He said it reqnired some courage to again address a company of pharmacists, especially as he had only just recovered from an attack of influenza, and that on the last occasion on which he addressed a body of chemists on ptomaines he was threatened by the newspapers with all sorts of pains and penalties, including professional suicide. He was not, however, on this occasion going to discuss the ethics of toxicology. Pharmacy was the right hand of the medical profession, who were much indebted to chemists who with snch marvellous precision fulfilled their behests. Chemists were not only their critics, but sometimes their judges also. The speaker then related a case of a man who was suffering from a serions ailment, for which he consulted two specialists and obtained two prescriptions. These he took to his chemist, and asked him to decide which he should have made up. That wily chemist—who was not, he added, a member of their Association—advised the patient that he would make him up a mixture which would have the good properties of both the prescriptions. (Laughter.) Some time ago he (the speaker) was consulted by a chemist's assistant about some nervous malady he was suffering from, and he asked the chemist's assistant what induced him to come to him, and he said he had for years compounded a number of his (Sir J. Crichton Browne's) prescriptions, and they were of such a severe type that he decided that if ever there was anything seriously wrong with him he should consult him. (Laughter.) Sir J. Crichton Browne went on to say that with the pharmaceutical conveniences of the present day there was a danger they might lose the art of prescribing and encourage the pernicious practice of self-drugging. He referred to the liberal way the medical profession was supplied with samples of new remedies, and said a medical friend of his had been in the habit of throwing his samples in the waste-paper basket until he found that one of the servant-girls had been rescuing them and experimenting with them on herself and fellow-servants. (Laughter.)

Mr. T. Morley Taylor, in a humorous speech, proposed "The Pharmaceutical Society," to which Mr. Walter Hills replied. He said, alluding to a remark made by Mr. Taylor, that it was no wonder he wore a worried look when he had the cares of his office upon him—the more so, perhaps, because he was speaking just after the song, "My gal is a high-born lady." He had been trying to think why that song had been sung immediately before his speech. It might be an allusion to what they often heard—that the Council was composed of West-end chemists, whose life was not so full of worries as the country chemists'. There was nothing, however, in this opinion—all had the same troubles. Mr. Hills went on to speak of the Pharmacy Act Amendment Act, in passing which, he said, they had been helped by the Chemists' Assistants' Association. Referring to suggestions for a draft Pharmacy Bill they had submitted to the Lord Chancellor, he said they covered principles which they could not well ignore, as they held that personal qualification was necessary, not only for the sale of poisons but for the practice of pharmacy. They also recognised that they must put their own house in order and give up the "widows' clause," which was a source of weakness to them. They willingly gave up a portion of their liberty to show they were anxious to protect the public. After alluding to the poisons regulations, now part of the Pharmacy Act, he spoke of the Council elections, and asked them not to vote for anyone with a special fad, but to vote for those who have the time and ability to carry out the duties.

Dr. Symes proposed "The Chemists' Assistants' Association." He spoke of a C.A.A. which existed thirty-five years ago, and from whose ashes the present Association sprang, and, reminding them that every legal decision tended to render more valuable the qualification they possessed, asked them not to prostitute their qualification by assisting that illegitimate competition from which they themselves would snffer when they set up in business for themselves.

Mr. F. W. Gamble, in reply, said he was sorry to see so many vacant places at the tables, due to the prevalence of influenza. Societies like their own served as nursing-grounds for the detectives whose work was to be the shadowing of M.P.'s, according to Mr. Newsholme's proposed scheme of local secretaries.

Mr. C. Morley proposed "The Visitors," and Mr. J. F. Harrington replied.

S. & H. C.C. Dinner.

Messrs. Stevenson & Howell's Cricket Club held their annual dinner and smoking-concert on Friday, March 3. There was a large gathering of members and friends, and a very enjoyable evening was spent.

Dewsbury and District Chemists' Association.

This Association, which was formed abont twelve months ago, held its first annual dinner on Thnrsday evening, March 2. Mr. Abraham Foster (President) was in the chair, and the company, which included chemists from Bradford, Halifax, York, and other towns, numbered twenty-five in all.

After dinner the Chairman proposed the usnal loyal toast, and then

Mr. Waddington (Bradford) submitted that of "The Dewsbury and District Chemists' Association." He did not think there was another association that had in so short a time gained such a reputation as had the Dewsbury Association. Their fight with the guinea-a-box pill-maker had gained them lanrels throughout the land. He ventured to think it would be a long time before either Mr. T. Beecham or his satellites measured swords with the Dewsbury chemists again. Mr. Waddington went on to urge unity and a forward spirit. If the Lord Chancellor saw that they were half-hearted he would not include the Pharmaceutical Society's suggestions in the draft Bill now under consideration. He suggested that the Bradford, Leeds, Dewsbury, Keighley, Skipton, Morley, Halifax, and Brighouse Associations should become affiliated, and then they would be able to choose someone to represent the West Riding of Yorkshire on the Pharmaceutical Society. (Hear, hear.) He hoped the Associations represented that night could do something in favour of Mr. Newsholme's gigantic scheme.

The President briefly responded, and said he thought the Dewsbury Association had done some good during the past year. Some people might think they had done no good in connection with the Beecham controversy. There was no telling, however, what would come out of that.

Mr. G. Walker (Vice-President) also replied, and thanked Mr. Waddington for his address.

"The Pharmaceutical Society" was proposed by Mr. Pickard (Bradford), and responded for by Mr. Stead (Heckmondwike); and "The Federation of Local Associations" was proposed by Mr. Cassons (Ossett), and to this toast Mr. Chaplin (Wakefield) replied.

Servian Drug-trade.—Drugs, chemicals, and colours to the amount of 57,849*l.* were imported into Servia during 1897, or 5,682*l.* more than in 1896. Of this amount 36,647*l.* worth came from Austria-Hungary; 11,282*l.* from Germany; 3,513*l.* from France; and 2,188*l* from Great Britain (chiefly soda, acids, salts, ammonia, varnish, and colours). For the first nine months of 1898 the importation of drugs and chemicals was valued at 37,307*l.*, a decrease, as compared with the same period of 1896, of 2,268*l.* There are no treaty restrictions in Servia regarding the importation of patent medicines and pharmaceutical preparations, although their retail sale by chemists is regulated by the sanitary laws, which require a Servian official analysis and certificate to the effect that there is nothing deleterious in their composition.

Legal Reports.

The Pharmacy Act.

AN UNQUALIFIED LADY VENDOR.

MRS. C. R. CURRIE, the wife of an unqualified assistant to Mr. Pilling, chemist and druggist, carrying on business in Hyde Road, Gorton, Manchester, was sued before Judge Parry, at the Manchester County Court on March 7, under the Pharmacy Act, 1868. The action was brought by the Pharmaceutical Society of Great Britain. Mr. R. E. Vaughan Williams appeared for the Society, and stated that Mrs. Currie, who was not qualified under the Act, sold a preparation of morphine, known as "Mrs. Winslow's Soothing-syrup," by which she had incurred a penalty of 5*l*. She had also incurred a like penalty by selling laudanum on November 23 last. The defendant was not represented, and did not appear. The quantity of laudanum she had sold at one time weighed ½ oz.—more than sufficient to kill a person. His Honour gave judgment for 10*l*., and costs.

The Saccharin Patents.

IN the Chancery Division, on March 3, before Mr. Justice Byrne, in the case of the Saccharin Corporation *v.* Anglo-Continental Chemical-works (Limited), Mr. Moulton, Q.C., said he had a motion for an interim injunction to prevent infringement of certain letters patent. It would, however, be necessary to cross-examine the deponent on behalf of the defendants on the affidavit he had put in. It was a very peculiar case—a case in which a company, having practically no capital, had been infringing these patents for some time, then it suddenly submitted to a perpetual injunction, and another company sprang up with about 2,000*l*. capital, and the plaintiffs found that it had bought the whole of the goodwill and taken over the travellers of the other firm. Of course, providing the costs of making a new rotten bogus company to infringe and to die just at the moment when justice was coming was a process that had been carried on for a long time.

Mr. Justice Byrne: It is a case where you can get an injunction on motion.

Mr. Neville, Q.C., who appeared for the defendants, submitted it was not. He had listened patiently to his learned friend's view of the case, and wanted to meet him in every way. It was true the plaintiffs had gone against the other company, but the proceedings had not come to anything, and he thought some of them were pending now. The present defendants were prepared to fight the action, and wished to do so. They were willing to give the plaintiffs all the information they had, so that the plaintiffs might found their claim. The defendants were buyers of saccharin abroad, and sellers in this country. The plaintiffs owned patents under which saccharin was manufactured in this country, and they alleged that saccharin could only be made in accordance with their patents. The defendants were not manufacturers, but they had affidavits to show that saccharin could be made in various ways, and said that, as far as they knew, their saccharin was not made by the plaintiffs' process. The defendants were prepared to give the names of the sellers from whom they bought, and to expedite the action in any way they could.

Mr. Justice Byrne: Are the vendors to you willing to be made defendants?

Mr. Neville said the vendors were abroad. The defendants were standing on their own footing, and they could only give all the information they had. The plaintiffs' action was a purely fishing one. They were not able to give particulars of breaches, except that the defendants had sold saccharin. His (Mr. Neville's) cross-motion was that the plaintiffs should deliver further particulars. It was obvious that if the motion were fought to its bitter end it could only result in his Lordship ordering the defendants to keep an account, which they were prepared to do. If that were done, the plaintiffs could not be injured.

Mr. Justice Byrne: What do you say to set the action down at once?

Mr. Neville: If your Lordship would allow us to move to expedite it.

Mr. Moulton: If my friend will give all the information his clients have as to the persons from whom it comes and the process by which it is made, so far as they know it, we will give the best particulars we can afterwards.

Mr. Justice Byrne said there was a difficulty in knowing what the defendants were doing until the matter came for trial.

Mr. Moulton said that Mr. Neville had met him very fairly, but it was a case of very great importance to his clients, and he would like to speak to them and mention it later in the day.

Mr. Justice Byrne: This would be the order, perhaps. Let the motion be set down at once, pleadings to be delivered notwithstanding such setting down, and then Mr. Neville's clients undertake within a fortnight to give you the best information they can in reference to these matters, and then let the application for further and better particulars stand over until fourteen days after Mr. Neville's clients had delivered their particulars.

Mr. Moulton asked to be allowed to mention the matter again, and his Lordship said he might, subject to getting his clients' consent.

Sale of Food and Drugs Act.

BORIC ACID IN MILK.

AT Bow Street, on March 3, a firm of wholesale milk-vendors were summoned for giving a false warranty with milk supplied by them to a retail dealer, the milk being supplied as genuine, when, in fact, it contained 33·74 gr. of boric acid per gal. It was contended, for the defence, that the defendants were not liable, inasmuch as the farmer from whom they bought the milk had never disclosed to them the fact that he used borax as a preservative. They had had the milk analysed on several occasions, but it had always been certified as genuine.

Mr. A. de Hailes, defendants' analyst, said he did not regard the quantity of boric acid found in the milk as an adulterant. It was quite harmless. He had never said that milk which was not fresh was improved by the addition of boric acid, but he did say it was better to drink an infinitesimal portion of boric acid than a multitude of microbes. It was absolute nonsense to say that boric acid would give stale milk the appearance of being fresh or conceal its quality. Boric acid might produce skin-disease. Many things might do that if taken in sufficient quantity, but he denied that the small quantity contained in this milk materially interfered with digestion. It made no difference up to 5 per cent.

Charles Edward Cassal, public analyst, said the amount of the boric acid in the milk was injurious, inasmuch as it prevented the decomposition of the milk and so retarded digestion. It did enable stale articles to be palmed off as fresh. The use of boric acid was prohibited in Germany and Holland.

Mr. Board, the farmer who supplied this milk, said he had used for the past twenty years a preservative made by himself of 12 lbs. of sugar, 6 lbs. of carbonate of soda, and 6 lbs. of borax, dissolved in 18 to 20 gals. of water. One pint of this mixture was put into each churn of milk.

Sir James Vaughan dismissed the summons, but agreed to state a case for review.

In a second case, against the Belgravia Dairy Company (Limited), the condemned milk was stated to contain 16·30 gr. per gal. of boric acid. In this instance Dr. Septimus Gibbon, for forty years medical officer of health to the Holborn District, and Dr. W. R. Smith, professor of forensic medicine at King's College and medical officer of health for Woolwich, agreed that boric acid, unless used in very large quantities, was not injurious to health. It was further stated that a Committee, appointed by the Local Government Board, had reported upon the use of this substance, and the case was adjourned for the report to be put in evidence.

At the adjourned hearing, on March 6, Sir J. Vaughan said he found that the only conclusion arrived at by the Committee appeared to be that, while the use of other substances, such as salicylic acid, was distinctly injurious, it

remained doubtful whether boric acid was harmful or not. Having regard to the conflicting nature of the evidence, he dismissed the summons, as there was no definite evidence that the substance in question was injurious. He consented to state a case.

Quinine-wine.

At Trowbridge Petty Sessions, on March 1, Misses Lucy and Hannah Gore, grocers, were prosecuted in respect of some orange-quinine wine which they had sold.

Mr. Cruttwell, who prosecuted, said he had no doubt the defendants sold the wine in the same state as they received it from the wholesale house, but that did not remove their responsibility. The inspector's assistant asked to be supplied with a bottle of orange-quinine wine; on the bottles it was specified in large letters that the contents were orange-quinine wine. This preparation, Mr. Cruttwell stated, was much used by invalids as a tonic, and for its stimulating properties. The constituent parts of orange-quinine wine should be 20 gr. of quinine and 1 pint of orange-wine. An analysis of the sample showed that the proper amount of quinine was present in the mixture in question, but the complaint was that there was no orange-wine in it. This omission was made up by the addition of alcohol and colouring-matter. The alcohol, however, was only 4½ per cent. instead of 10 or 12 per cent., which proper orange-wine would contain. With such a small percentage of alcohol there would be great doubt whether the mixture would keep, and in order to provide for this salicylic acid had been added. This acid had a very depressing effect on some people. He expressed surprise that the wholesale house (Messrs. Lorimer) who supplied the article was not legally represented there that day.

Evidence having been given, Mr. Joseph Gore, brother of the defendants, said the facts were not disputed. The wine was bought in 1895, the list sent out with it declaring that it answered all the requirements of the British Pharmacopœia. Since the receipt of the summons they had communicated with the makers, who, in reply, stated that it had been discovered in 1897 that the alcoholic strength was not as it should be, and therefore they sent circulars to all customers who had bought it. His sisters, however, had never received such a circular. Under the circumstances he pleaded that any fine which might be imposed might be as low as possible, as they were by no means sure of getting the money back from the wholesale firm.

Mr. Cruttwell informed the Bench that one of the wholesale firm's customers was prosecuted at Swindon in 1897 under exactly similar circumstances, and a fine was imposed. A representative of Messrs. Lorimer then attended, and attempted to justify the manufacture of the wine.

The Chairman said the Magistrates believed that the defendants had acted innocently in selling the wine, but still they were bound to protect their customers. A fine of 1*l.* 10*s.*, including costs, was imposed.

Milk of Sulphur.

At the West Riding Petty Sessions, Wakefield, on March 3, the Castleford Industrial Co-operative Society was summoned for selling milk of sulphur which was certified by the public analyst to contain 76 per cent. of lime.

Similar cases were preferred against Mr. Wilson, of Methley; Mr. Winterburn, also of Methley; Mr. Hy. Gooder, of Horbury; and Mr. Joseph W. Laughton, also of Horbury. Inspector Crabtree produced certificates showing that the adulterations in these cases were as follows:—Mr. Wilson, 65 per cent. of lime; Mr. Winterburn, 70 per cent.; Mr. Gooder, 67 per cent.; Mr. Laughton, 57 per cent.

In defence, it was stated in each case that the milk of sulphur was purchased several years ago, and sold in exactly the same condition as received from the wholesale house. In reply to the Chairman, all the defendants promised to destroy the whole of the stock of milk of sulphur remaining, and the cases were dismissed on payment of costs.

Tincture of Turkey Rhubarb.

At Croston (Lancashire) Petty Sessions on March 8, Robert Jackson, of Bretherton, was summoned for selling a tincture of Turkey rhubarb not of the quality demanded. P.S. Jackson stated that on January 20 he purchased 8 oz. of tincture from defendant's shop, the defendant's wife telling him they had had the stuff for years in stock. The analysis showed the composition to be 2·11 per cent. total solids, of which 0·49 was resin, 33·40 per cent. of alcohol, corresponding to 70 per cent. proof spirit, 49 water. The analyst stated that the tincture was deficient in proof spirit and in the active ingredients of tincture of Turkey rhubarb. Mr. Walsh, who defended, said the tincture had been some years in stock. Fined 5*s.* and costs.

Damage from Chemical-works.

At Durham Assizes, last week, Joseph Lambert and others, the owners and occupiers of a farm near Stockton-on-Tees, sued Mr. R. H. Wilson, of the Eaglescliffe Chemical-works, adjoining their farm, for damages to stock, caused by the pollution of a stream which ran past the works, and through the farm, and destruction of herbage and drinking-water by noxious gases and vapours from defendant's works. Plaintiffs also asked for an injunction restraining defendant from continuing the nuisance. Plaintiffs complained that several cattle and ewes died after drinking from the stream and cropping the herbage near the works, and thirty-five lambs died shortly after being dipped. The evidence of several veterinary surgeons and others was given in support of this statement. The defendant denied the damage, and claimed a prescriptive right to pollute the stream. A number of experts gave evidence on defendant's behalf, amongst them being Professor MacFadyean (Principal of the Royal College of Veterinary Surgeons), Dr. J. A. Voelcker (London), and Messrs. W. F. K. Stock and J. E. Stead (public analysts). At the end of the third day's hearing the jury found for plaintiffs (with 250*l.* damages) on the complaint of pollution of the stream, and for the defendant as regarded the alleged damage to herbage. The injunction was ordered to stand over for the consideration of its terms by counsel, with a view to seeing if the matter could be amicably arranged.

Restrained from Carrying on Business.

At the Manchester sitting of the Chancery of Lancashire, before Vice-Chancellor Hall, on March 6, Mary Rudkin Williams (widow), of 189 Wavertree Road, Liverpool, applied for an injunction against Thomas Gibson, of 271 Edge Lane, Liverpool, chemist, to restrain him from carrying on business as a chemist, either as manager or assistant, or on his own account, in Wavertree Road, Liverpool, or within a radius of one half-mile from the plaintiff's shop, 189 Wavertree Road, for the space of two years from August 1, 1898.

Mr. McMaster appeared for the plaintiff, and Mr. Radford for the defendant.

It appeared that the defendant had entered into an agreement with the plaintiff in March, 1898, to act as manager at the plaintiff's shop in Wavertree Road, Liverpool, for a term of six months, at a salary of 38*s.*, per week, and also agreed not to engage himself as manager or assistant, or open a business on his own account, in Wavertree Road or within a radius of one half-mile from 169 and 189 Wavertree Road, for a term of two years after leaving plaintiff's employ. In August, 1898, the defendant left the plaintiff's employ, and since that time had been engaged as manager to different chemists within the prescribed area. At the present time, however, counsel stated, the defendant was preparing to open a chemist's shop in Wavertree Road, in breach of his agreement.

The defendant had replied to the plaintiff's solicitors to the effect that he was only going to conduct the business of a drug-store and sell a dog-powder of which he was the sole maker, and his counsel now argued that the agreement could not be enforced, inasmuch as it was not stamped, and further that the business which the defendant was to carry on was not defined.

The Vice-Chancellor ruled that for present purposes the word "business" in the agreement meant a chemist's business, and granted the injunction.

Mr. McMaster said he would have the agreement stamped.

Commissioner Kerr and Modern Legal Procedure.

In the City of London Court, on Tuesday, before Mr. Commissioner Kerr, W. J. Bush & Co. (Limited), wholesale druggists, Artillery Lane, E.C., sought to recover the sum of 10*l.* 4*s.* 2*d.* for drugs supplied to Woodcock's Ammonia Foam Company (Limited), Birkenhead. Mr. Taylor, defendants' solicitor, said they admitted the debt, but wanted a stay of proceedings on the ground that the defendant company had gone into liquidation.

The Commissioner: Well, well; if you admit the debt the plaintiffs are entitled to judgment.

Mr. Taylor argued that that was not so. It was the practice, he contended, that if, in such a state of circumstances as existed, plaintiffs did not agree to a stay of execution, the defendant company would be entitled to the costs of applying for the stay.

The Commissioner: Why are proceedings to be stayed if you owe the money?

Mr. Taylor said they had offered to allow the plaintiffs to prove for their debt and costs in the liquidation.

The Commissioner said he did not see the good of offering what the plaintiffs were entitled to. The defendants had given the plaintiffs notice that they would do this, and do that, and do the other. He really did not understand what legal procedure was coming to.

Mr. Taylor added that if the plaintiffs issued execution against the defendant company it would have a very disastrous effect.

The Commissioner retorted that attorneys now did a great deal of talking and writing and giving notices instead of attending to their business. He could not listen to the application. There must be judgment for plaintiffs with costs.

Action against Chemical-manufacturers.

In the Court of Session, Edinburgh, on March 4, Lord Kyllachy disposed of an action by T. Hamilton & Co., merchants, London, against J. G. Swan & Co., chemical manufacturers, Glasgow and Buenos Ayres. Mr. R. A. Swan (nephew of Mr. J. G. Swan) was the representative of the firm at Buenos Ayres, and the question was whether the firm, who imported sheep-dips and other chemical products from this country to Buenos Ayres, was responsible for payment of over 3,000*l.*, due by Mr. R. A. Swan to pursuers in connection with transactions in live stock which took place between them. Lord Kyllachy held that such transactions were without the co-partnery of J. G. Swan & Co., and that Mr. J. G. Swan had no knowledge of them. He therefore assoilzied the defenders, and allowed them expenses.

C. A. Voegeler Company *v.* Hoekstra.

The award in this case (reported last week) gave costs to the plaintiffs, as well as the 250*l.* damages, as stated.

The Castner-Kellner Alkali Company (Limited) *v.* The Commercial Development Corporation (Limited).

The Court of Appeal on Friday, Saturday, Monday, Tuesday, and Wednesday were occupied with the further hearing of the defendants' appeal from Mr. Justice Bigham's judgment in this action, which was to restrain the alleged infringement of the plaintiffs' letters patent for the manufacture of caustic soda by improvements on the electrolytic apparatus for decomposing alkaline salts. The defendants denied infringement, and contended that the plaintiffs' patents were bad for disconformity and want of subject-matter.

Mr. T. Terrell, Q.C., Mr. Astbury, Q.C., Mr. McConkey, and Mr. J. H. Gray appeared in support of the appeal; and Mr. Moulton, Q.C., Mr. Bousfield, Q.C., Mr. J. Graham, Mr. A. J. Walter, and Lord Robert Cecil were for the respondents.

Mr. Terrell concluded his opening for the appellants, and Mr. Astbury followed on the same side.

Mr. Moulton, Q.C., in support of the judgment, argued that the Kellner process was in certain respects absolutely novel. He cut his cell in two, and got his results by moving one part of the cell more rapidly than the other.

Lord Justice Williams: It seems to me that there is one point that you and Mr. Terrell are absolutely agreed on: that if one wishes to find out what was the novelty in either one of these patents, one must not look at anything said in the letters patent about it. You say the great thing if you look at the Kellner patent is something which is not mentioned from beginning to end of it. Then I hear Mr. Terrell say the great point about the Rhodin patent is so-and-so. I look at the Rhodin patent, and find nothing about it.

Mr. Moulton: You have heard the Kellner patent only when treated with unloving hands. Let me say what I say he did. He was the first person to take an electrolytic cell. Of course an electrolytic cell is a thing which contains necessarily a fluid, necessarily an anode, and necessarily a cathode; he took an electrolytic cell containing its fluid, and moved it about in a bath of other fluid, carrying its own fluid still, thus cutting in two an electrolytic cell, and moving the sides and the contents by themselves for the purpose of getting electrolytic decomposition of these salts.

The Master of the Rolls: He slid the cells over the mercury, instead of sliding the mercury under the cells.

Mr. Moulton: Yes; but who ever slid a cell before containing a fluid in the middle of a bath of another fluid, keeping the two fluids absolutely from mixing, because that is the one thing that is essential? He kept his electrolytic cell perpetually changing its walls in the sense of perpetually moving it and changing the bottom on which it rested; he moved that about among the other fluid in which he intended ultimately to deposit its contents, and yet he did it without any confusion, without any mixture of the two fluids, and without any destruction of the separate and independent action of an electrolytic cell.

After contesting the various points which had been raised by counsel for the defendants, Mr. Moulton said: We gave by our invention a useful choice to the world by which they could attain this alternation of circumstances by new mechanism, which under some circumstances would be valuable and under others would not. Now if we have done that, and their patent—which I do not admit—shows how great an advantage can be taken of that, then there is a tributary patent; they are using our invention, although they have added to it. They have ploughed with our heifer. I do not mean to say the skill of the ploughman is nothing, but still whose heifer was it?

On Wednesday Mr. Terrell replied on the whole case. He contended that, though there might be some difference between Kellner's patent and the alleged anticipations, there was no evidence and no suggestion even that there was utility in such difference. Kellner's specification did not describe a stationary mercury cathode, and he spoke of rotating the vessel containing the mercury. What he described was a flowing mercury cathode as distinguished from a mercury cathode stirred or agitated. One could not help thinking, with regard to Kellner, that between the date of his provisional specification and the date of his complete specification some knowledge of Castner came to him, for the reason that he took the two things which Castner had for the first time introduced.

At the conclusion of the arguments, their Lordships reserved judgment.

Bankruptcies and Failures.

Re Edwin Buckland (trading as Ted Buckland), Proprietor of Drug-stores, King Street, Sutton-in-Ashfield.

The public examination of this debtor took place at Nottingham County Court, on March 3. Debtor said he started business in 1894 with 60*l.* capital. Three years ago he discovered that he could not pay his debts, but hoping that trade would improve he continued to carry on business. He admitted that the whole of his liabilities had been contracted since he became aware of his unsound position, and that his

business had recently decreased considerably in consequence of competition and bad trade. He had been travelling of late with his own goods, and during his absence the business was in charge of an errand-boy at 4*s.* 6*d.* per week. The liabilities are stated at 298*l.*, assets 28*l.* Ultimately the debtor was allowed to pass.

Re Schofield & Griffin, 16 Heyworth Street and 110 Mill Street, Liverpool, and 63 Rice Lane, Malton, and 46 Linacre Road, Seaforth, near Liverpool, Druggists.

It appears from the Official Receiver's observations on this case that the receiving order was made on the petition of a creditor. The debtors state that they started business in co-partnership in May, 1897, and that the capital of the firm was 100*l.*, which was paid in by Mr. Schofield. Mr. Griffin did not introduce any money into the business. They opened four shops in different parts of this city. At the date of the receiving order two of these shops, with the fixtures, had been given up to the respective landlords for rent due and in arrear. The stock and fixtures in the other two were sold by the debtors privately on December 26, 1898, for 25*l.* and 30*l.* respectively. This money will have to be accounted for. No books of account have been produced. The debtors admit that they were aware of their insolvency in November, 1898. They state that they drew 30*s.* per week each from the business. The following is the debtors' own explanation of the deficit:—Excess of assets over liabilities on May 8, 1897, 100*l.*; net profit from May 8, 1897, to date of receiving order, after deducting the usual trade-expenses, estimated 52*l.* 18*s.* 4*d.* Expenses since May 8, 1897, other than usual trade-expenses: drawings of debtors, one year and nine months, at 30*s.* weekly each, 273*l.* The stock-in-trade at Heyworth Street cost 10*l.*, estimated to produce 7*l.* 10*s.* The fixtures and fittings there (cost 40*l.*) are estimated to produce 20*l.* The fixtures and fittings at Linacre Road (cost 12*l.*) estimated to produce 5*l.* Thus these two shops show a loss of 29*l.* 10*s.* The deficiency is shown as 149*l.* 11*s.* 8*d.* Both debtors state that they have no separate liabilities or assets. They attribute their insolvency to "bad trade and bad managers." The statement of affairs shows gross liabilities amounting to 190*l.* 1*s.* 8*d.*, of which 149*l.* 11*s.* 8*d.* is unsecured; and assets estimated to produce 32*l.* 10*s.*, the whole of which is absorbed by preferential claims. The following are creditors:—

	£	*s.*	*d.*
Ayrton & Saunders, Liverpool	12	10	0
Clay, Dod & Co., Liverpool	83	1	4
Daisy (Limited), Leeds	11	14	0
McHugh, Thos., Bootle	12	0	0
Preferential creditors	37	4	11

Deed of Arrangement.

Dixon, William Torbet, trading as the Globe Mineral-water Company, The Globe Works, North Street, Dewsbury, and residing at Healey House, Batley, mineral-water manufacturer. Trustee, John Butterfield, City Chambers, Darley Street, Bradford, chartered accountant. Dated, February 27; filed, March 6. Secured creditors, 9*l.* 9*s.* 1*d.*; liabilities unsecured, 800*l.* 4*s.* 2*d.*; estimated net assets, 249*l.* 13*s.* 7*d.* The following are scheduled as creditors:—

	£	*s.*	*d.*
Andersou, R., Bradford	30	0	0
Barnett & Foster, London	22	0	0
Bush, W. J., & Co. (Limited), London..	16	0	0
Dickson, C. A., Bradford..	15	0	0
Dixon, Ellinor, Lymington	425	0	0
Douglas, Adamson & Co., Thornhill Lees	12	0	0
Drummond, J., Bradford..	10	0	0
Grayson & Co., Dewsbury	17	0	0
Harrison, A. (Limited), Liverpool	10	0	0
Kilner Brothers, Thornhill Lees	48	0	0
Kops's Brewery, London..	27	0	0
Nuttall, Dr., Bradford	14	0	0
Priestley, W. E. B., Bradford	25	0	0
Rent	11	0	0
Swithenbank, A., Dewsbury	15	0	0

Gazette.

PARTNERSHIPS DISSOLVED.

Ashby, R., and **Constant, T. E.,** under the style of Ashby & Constant, Scarborough, dental surgeons.

Mascall, G. S., and **Mascall, T.,** under the style of Maseall Brothers, Wcedington Road, Kentish Town, N.W., surgical and veterinary instrument makers.

THE BANKRUPTCY ACTS, 1883 AND 1890.

Adjudications.

Howarth, Ambrose, Saffron Walden, dentist.

Schofield, Joseph, and **Griffin, Samuel** (carrying on business in co-partnership under the style of Schofield & Griffin), in the receiving order described as Schofield & Griffin, Liverpool and Walton, and Scaforth, near Liverpool, druggists.

Order made on Application for Discharge.

Wheeldon, William Henry, Henley-in-Arden, chemist—suspended for two years, endiug February 8, 1901.

Trade-Marks Applied for.

Anyone who objects to the registration of a trade-mark must address the Comptroller-General, Patent Office, Chancery Lane, W.C., within a month of the date of publication.

(*From the "Trade Marks Journal," March* 1, 1899.)

Design of foot and leg swathed in a surgical bandage; for chemical substances for use in medicine and pharmacy. By the Naptalan Gesellschaft (Limited), Magdeburg, Germany, manufacturers. 219,563.

Combination of devices (the essential particular) consisting of an oval-shaped label with fantastic letters "Dr. L. & Co."; for pharmaceutical preparations and compounds included in Class 3. By Dr. Lilienfeld & Co., Vienna, manufacturing-chemists. 219,822.

Device (the essential particular) of two artistic labels with head of female, the word "Kosmeo" and other wording on each; for an eye-lotion. By the Kosmeo Company, New Bond Street, W., manufacturers. 220,019 and 220,020.

"Pocliano"; for liquorice-juice. By Goodall, Backhouse & Co.' Leeds, wholesale druggists. 219,174.

"Dandryne"; for a cleansing-liquid for washing painted and varnished surfaces. By J. Paterson & Co., Glasgow, merchants and drysalters. 220,011.

"Jonpom"; for a preparation for the hair. By W. T.Coltman, Middlesborough, chemist. 218,052.

(*From the "Trade-marks Journal," March* 8, 1899.)

"Silver Shell"; for alkalies. By Castner-Kellner Alkali Company (Limited), Abchurch Lane, E.C., manufacturers. 219,740.

Facsimile signature "Richard Hoult"; for chemical substances. By R. Hoult, Rotherham, manufacturer. 219,868.

"Parazan"; for paint. By Mander Brothers, 17 Gracechurch Street, E.C., manufacturers of varnishes, paints, &c. 220,237.

"Astraline"; for the natural boric acids of Tuscany and similar substances. By La Société Anonyme Générale de Borax, Brussels, manufacturers of borax. 220,304.

Device representing Nottingham Castle; for disinfectants and like compounds. By the Nottingham Chemical Company, Nottingham, chemical manufacturers. 217,624.

Combination of devices (the essential particular) representing a label with sketch of a bottle, a geograpbical globe, and wording "Farmer Lovitt's Oils"; for oils for veterinary purposes. By Lovitt Brothers & Co., Grimsby, manufacturers. 217,636.

Device of a shamrock and the word "Shamrock" (the essential particulars); for a chemical preparation for preventing blight on plants. By Lawes' Chemical-manure Company (Limited), Mark Lane, E.C., mauufacturers. 218,784.

"Hedgehog"; for an insecticide for washing plants. By the Chiswick Soap Company, Chiswick, soap manufacturers. 220,017.

Design of articles of machinery, arranged to represent a man's head; for chemical substances. By R. Hoult, Rotherham, manufacturer. 220,050.

Combination of devices (the essential particulars) representing Hygea and Æsculapius, and a heraldic device; for a medicated foot-powder, for a preparation for preserving and sterilising food, and for perfumery and toilet-articles. By the Kosmin Company, Golden Lane, E.C., manufacturers. 217,961, 217,963, and 219,266.

Facsimile signature "D. Pain"; for medicinal candles. By Sarah Dewhurst Pain, Clapton, N.E., manufacturer of toilet-requisites. 218,408.

Design of bundle of canes and the word "Néréïde"; for the medicine for the prevention and cure of sea-sickness and indigestion. By André Cassadon, Bordeaux, chemical manufacturer. 219,046.

"Largin"; for pharmaceutical preparations and compounds. By Dr. Lilienfeld & Co., Vienna, manufacturing chemists. 219,821.

"Lintral"; for pharmaceutical preparations. By P. Bliersdorf & Co., Hamburg, manufacturing chemists. 219,929.

"Pocliano"; for liquorice-juice specially prepared for use in pharmacy. By Goodall, Backhouse & Co., Leeds, wholesale druggists and drysalters. 220,190.

Combination of devices and the word "Kosmin" (the essential particulars); for surgical instruments and apparatus. By the Kosmin Company, Golden Lane, E.C., manufacturers.

"Boulevard"; for substances used as food or as ingredients in food. By the Condensed Peptonised Milk Company (Limited), Arundel Street, Strand, W.C., manufacturers of milk-preparations. 219,194.

"Crissel" (the essential particular); for a food for pheasants and other game-birds and poultry. By Spratts Patent (Limited), Bermondsey Street, S.E., manufacturers. 219,479.

"Sirdar"; for burdock and dandelion stout, barm-beer, hop-bitters, and herbal beverages. By the Sirdar Mineral-water Company, Liverpool, mineral-water manufacturers. 220,014.

The Coroner and the Patent Medicine.

At Southport, on March 7, an inquest was held on the body of Charles Ellis (26), a wood-carver.

In his opening address to the jury, the Coroner (Mr. S. Brighouse) said deceased had been subject to epileptic fits ever since he was 8 years of age, and recently he had been taking a patent medicine called "Dr. Oscar Fanyau's Remedy for Epilepsy." About a fortnight ago deceased contracted a cold, which gradually became worse, and he took to his bed on February 27. Two days later Dr. Maule was called in, and attended him up to the time of his death. When Dr. Maule first saw deceased he was in an unconscious condition, which the relatives thought was the effect of the patent medicine he was taking. The doctor told him to discontinue the medicine, but deceased remained unconscious and died. From what he (the Coroner) could gather, deceased had written to 90 Great Russell Street, London, W.C., and in reply had received a pamphlet, which was a practical treatise on epilepsy and allied diseases, and quoted the system of Dr. Fanyau as the only scientific and positive system for the cure of epilepsy. In consequence of the assertions in this pamphlet deceased wrote and obtained "Oscar Fanyau's Fit-remedy," which was supposed to be made in France. In very small print it was stated that, the vehicle of the preparation being natural mineral water containing a trace of arsenic, it was labelled "Poison" to comply with the Pharmacy Act of Great Britain. The remedy was prepared in four different strengths, described respectively as Nos. 1, 2, 3, and 4, and a glass measure was supplied with each bottle to facilitate the accurate measurement of each dose. When the patient had bought his medicine and read the pamphlet he found that in order to obtain a really effectual cure he must also use some of their diuretic-tea.

Mrs. Ellis, widow of the deceased, in the course of her evidence, said the price of the remedy was 5*s.* per bottle, and the diuretic-tea was 1*s.* 3*d.* per packet. Dr. Fanyau had never seen deceased, who got six bottles of the remedy at a time, for which they paid 1*l.* 9*s.* 6*d.* a month. Deceased took the medicine three times a day, diluted with a pint of the tea.

The Coroner: They call it tea; I should have thought it was chopped hay. It looks very much like it.

Witness added that her husband sometimes woke up in the morning complaining of heaviness in the head; but that did not appear until he had taken No. 4 medicine. The previous bottles seemed to make him brighter. She believed that the medicine would cure her husband.

The Coroner read a number of letters from Dr. Fanyau advising deceased as to the taking of the medicine and recommending that the amount of the dose be temporarily reduced and the heaviness would disappear.

The Coroner: Have you any suspicion that this patent medicine had anything to do with his death?—Witness: I do not think so. I do not think it was the medicine at all.

Do you think he would have died if he had not taken any of this medicine?—I think so.

The Coroner said that, whatever the result of that inquiry was, he did advise witness not to put any faith whatever in a man who, through a paper, said he could cure any and all kinds of diseases by a particular medicine. It was monstrous and absurd to think that the public could for one moment imagine they could be cured in that manner. This medicine, at the rate they had been paying for it, cost 18*l.* a year, for which sum they could have a surgeon attached to the establishment.

Dr. Maule said he had made a *post-mortem* examination, but could not form any opinion as to the cause of death. The immediate cause was coma. He was not able to form any opinion as to how that coma was brought about. The state of the patient from Wednesday until his death was not compatible with the ordinary state of an epileptic. He thought there must be arsenic in the medicine, but it would be difficult, even by analysis, to say what the drug was. The symptoms were not consistent with a patient suffering from an overdose of arsenic.

The Coroner said it was their duty to adjourn the inquiry in order that the medicine might be analysed by the Public Analyst, not only to enable him to find out the cause of death, but also for the benefit of the public. Dr. Fanyau would probably see a report of the inquiry in the papers, and if he did not he (Mr. Brighouse) would send official intimation, so that he would come down for the next inquiry.

The inquiry was then adjourned till a date to be fixed.

New "C. & D." Books.

We shall have ready in about ten days a concise little treatise entitled "Practical Methods of Urine-analysis." It has been written for us by a pharmacist, and will be found to fulfil the requirements of all chemists, showing, as it does, the normal and abnormal constituents of urine, the best methods of testing, and the pathological conditions which the results of the analyses may indicate. This valuable treatise will be sold at 1*s.* 6*d.* (1*s.* 8*d.* post-free), and orders may be sent at once either to us direct, or to the wholesale houses, who will supply it at the published price.

About a week later we shall have ready an entirely new edition of Dodd's "Complete Guide to the Pharmaceutical Preliminary Examination." In this work we meet the new requirements (which will come into operation in July, 1900), sections on Algebra, Euclid, French, and German being added. Of course, as the greater includes the less, this guide will be as useful as ever to students preparing for the examination as at present conducted, but it has the advantage of meeting all the requirements of the examination-conditions laid down by the General Medical Council. It will give particulars of the principal examinations which meet the latter requirements, such as the First-class of the College of Preceptors. Dodd's "Guide" will be sold at 2*s.* 6*d.* (post-free, 2*s.* 9*d.*), and may be obtained from us or from the usual wholesale firms.

A new edition of Proctor's "Pharmaceutical Testing," revised throughout so as to correspond with the new British Pharmacopœia, will be published next month. Price, 2*s.* 6*d.* (post-free, 2*s.* 9*d.*).

Westminster Wisdom.

English Medicines and Irish Contracts.

In the House of Commons, on Monday, Mr. McCartan asked the Chief Secretary for Ireland whether his attention has been called to a paragraph published in the Dublin *Freeman's Journal* of March 2, under the heading "Local Government Board Medicine-tender Forms":—

Whether he was aware that the paragraph contained a copy of a resolution adopted unanimously by a board of guardians protesting most emphatically against the nse of these forms as prejudicial to the purchase of certain medicines in Ireland;

Whether these forms quoted from the price-lists of English firms, and in certain cases contained the fancy trade-mark of English firms;

And, whether, in the encouragement of Irish industries, these forms would be discontinued, and boards of gnardians and district councils be allowed to purchase with Irish money these drugs, medicines, and instruments from Irish firms in Ireland.

Mr. Gerald Balfour: The answer to the first and second paragraphs is in the affirmative. In the Local Government Board's prescribed list of medicines, 11 out of the total of 416 articles given therein are quoted from the price-list of an English firm (Messrs. Burroughs & Wellcome), the strength of the preparation being stated in each case. These few articles had been added to the 405 preparations of the British Pharmacopœia included in the list, as being articles of well-established reputation. There is no foundation for the complaint contained in the resolution that the inclusion of the few preparations referred to in the Board's authorised list will be prejudicial to Irish manufacturers, and the Local Government Board have reason to believe that any list which excluded these eleven preparations of Messrs. Burroughs & Wellcome would be considered incomplete by the medical profession. The artioles have received the approval of the Royal College of Physicians in Ireland. No objection has been received from the Irish drug-trade respecting the Local Government Board's prescribed list of medicines.

Amending the Sale of Food and Drugs Act.

Mr. Long, President of the Board of Agricnlture, got the opportunity on Monday evening to move the second reading of his Bill to amend the Sale of Food and Drugs Act. The Committee, he said, which considered the Bill during three years, and reported in 1896, found in the main that it was not so much an amendment of the law that was required as an improvement in administration. A large part of Mr. Long's speech was concerned with the clauses in reference to margarine, and he was eager to point out that there was no intention of protecting agriculturalists, nor to interfere with the sale of a wholesome and valuable article of food in great demand by the poorer classes, so long as it was sold in a straightforward manner.

Mr. Lough opposed the Bill, which, he said, aimed to raise prices and to protect the agricultural interest. He did not know why the Board of Agriculture had come into this matter, nor why it had not been left in charge of the Local Government Board. He had no objection to the second part of the Bill.

Sir C. Cameron, who seconded Mr. Lough's amendment, said he had no animosity to the first part of the Bill; he disliked the second part. Mr. Strachey complained that the Bill did not deal with the addition of preservatives to milk and cream. Mr. Johnstone, on the other hand, contended that the addition of a preservative was necessary when milk was sent from a long distance to London. Sir Walter Foster expressed moderate approval of the Bill. He hoped, however, it would not be hurried through. Mr. Lowles, member for Shoreditch, said it was becoming an increasing burden on the retailer to satisfy all the Acts of Parliament affecting him. He hoped that invoices as a warranty would not be interfered with, and he recommended that the Bill should be so amended as to protect the employer against the carelessness of the assistant. The debate continued until midnight, when it was automatically adjourned until Thursday.

The Petroleum Bill.

The Petroleum Bill, introduced by Mr. Reckitt, Mr. Ur, and others, is likely to come on for second reading on Wednesday next, February 15. In a memorandum prefixed to the Bill the anthors state that their object is to give legislative effect to the intentions of Parliament as expressed in the Petroleum Act, 1871. That Act placed restrictions on the sale, keeping, and carriage of petrolenm with a flash-point under 100° F. Bnt the test prescribed by that Act was found to be fallacious. Unless applied with extreme care and scientific accnracy the open test might be incorrect to the extent, approximately, of 27°. A close test was therefore devised by Sir Frederick Abel, and was snbstitnted for the open test by the Act of 1879. Bnt by this Act the flash-point was fixed at 73° F., so that all petroleum with a flash-point above 73° F. was, "contrary to the 1871 Act, freed from legislative restrictions." Mr. Reckitt's Bill is a very short one, and simply proposes to repeal those parts of the 1879 Act which refer to 73° F. It is expected that the Government will oppose this proposed amendment, thus, as in the case of the Sale of Food and Drugs Act, rejecting the conclnsions of the Select Committee which considered the snbject last year. Those who oppose the raising of the flash-point allege that to do so would considerably increase the cost of petroleum in this country. Its advocates, however, maintain that the Russian competition in the higher quality oil would effectually check the tendency to an advance which the American monopolists wonld enconrage if they dared. But more important than this, the *Star*, which has so persistently pressed for this amendment on the gronnd of the safety of the public, points to a list of 106 deaths in 1898 directly dne to the nse of low-flash oil. Unless the representatives of the Home Office can satisfactorily dispose of this charge, their objection to interfere with the trade ought to meet with scant sympathy in the House of Commons.

A deputation which claimed to represent every firm engaged in the petrolenm-trade in Bristol, the West of England, and South Wales, with the exception of one at Plymonth and one at Cardiff, waited on Mr. Jessse Collings, at the Home Office on Tuesday, to urge that to raise the flash-point to 100°, would annihilate the trade. Mr Collings, in a sympathetic reply, commented on the memorandum attached to Mr. Reckitt's Bill. He said it wonld be impossible to make a more misleading or more inaccurate statement; there was absolutely no difference between the 1871 flash-point and that of the present time. The only difference was that the method of testing had been altered.

British, French, and German Patents.

In the House of Commons on Tnesday, March 7, Mr. Cawley asked the President of the Board of Trade whether he was aware that the protection granted in Germany to a snpplementary patent (Zusatz) was limited to the remaining term of the original patent, whilst in the United Kingdom it was treated as a new patent, rnnning for the full term; and that a patent originating in Germany and registered in France ceased to exist in Germany and in France simultaneously: and whether, considering that the longer duration of such patents in this conntry than in Germany and France was so serions a disadvantage to British manufacturers, more particularly to manufacturers of chemicals, who were precluded from nsing them, often for years, during which their German and French competitors were at liberty to do so without restraint or payment of royalty, the Government would be willing to bring in a Bill during the present Session to remedy this ineqnality arising, not from natural causes, but from discordant legislation.

Mr. Ritchie: In Germany and France the duration of an ordinary patent is fifteen years. For this reason patents taken ont in both these conntries expire simnltaneously. In the U K. the dnration of a patent is limited to fonrteen years. Therefore, in the great majority of cases in which patents of the same invention are taken out in the three countries, the patent expires one year earlier in the U.K. than in Germany and France. In the very exceptional case of patents of addition in Germany, it would depend on the date of the application for the patent whether the patent would expire earlier in Germany or in the U.K. I am not prepared to introduce legislation this Session.

Cookery Exhibition.

THE eleventh Universal Cookery and Food Exhibition is being held this week in the Imperial Institute. Among the exhibitors in the commercial group are the following, of interest to chemists:—

AËRATORS (LIMITED) exhibit sparklets. The latest form of bottle is covered with plaited silvered-wire, and looks very well. The list of tablets for making medicated or flavoured waters is being extended, and includes lithia, Carlsbad, and Vichy; the necessary ingredients for lemonade and other saccharine beverages are supplied in packets.

The ALEXANDER MANUFACTURING COMPANY are showing Dr. Klein's meat-juice extractor in action, together with other household conveniences.

BRAND & Co. have an exhibit of their meat preparations, of which the meat-juice in flat round bottles and beef bouillon in bottles are the most recent.

BROOMFIELD & Co.'s exhibit consists of Albene, which, as we have mentioned before, is a vegetable fat intended to be used in the place of lard.

BOVRIL (LIMITED) are showing their numerous preparations, special prominence being given to Kudos cocoa. They have also some new ideas in advertising matter.

JEWSBURY & BROWN (Manchester) have a pretty central stand on which are samples of their various aërated waters. These include Lysidine, Piperazine, and Koumiss in syphons. This exhibit was not, however, in competition.

CEREBOS (LIMITED), at their stall, informed our representative that Cerebos is selling better than ever. Of its merits we have spoken before.

ALFRED BIRD & SONS are showing their custard, blancmange, and jelly powders, not for competition. They show by demonstration what can be done with their preparations, which is a convincing and tempting form of advertisement.

VEJOS (LIMITED) are exhibiting their now well-known vegetable-extract vejos and fluid vejos.

J. & C. COX (LIMITED), Edinburgh, have a well-built-up stand of packets of gelatine, behind a display of some of the delicacies which can be turned out from it by the cook.

COOMBS'S "EUREKA" AËRATED FLOUR COMPANY (LIMITED) have an exhibit of their "Eureka" malted food, and are giving away samples to visitors. Among their other exhibits of goods sold by chemists there were "Eureka" blanc-mange powder, custard-powder, egg-powder, and light-pastry powder. There are some novel advertising-ideas, the most striking being a porcelain rolling-pin, sold at a cheap rate on account of the advertisement with which it is adorned.

AYMARD'S milk-steriliser is booming. The crusade against consumption has caused an increased interest in sterilisers.

Students at Gas-making.

THE students of the North of England School of Chemistry and Pharmacy, Newcastle-on-Tyne, visited Morpeth on Saturday, February 25, Mr. F. R. Dudderidge, the Principal, accompanying the party. They were first shown over the gasworks, where all the processes for the manufacture and purification of coal-gas, and the preparation of ammonium sulphate were shown and fully explained by Mr. Airth, jun., son of the manager. The party then proceeded to view the greenhouses of Mr. Edward Hopper, where a magnificent collection of rare and valuable orchids and fine specimens of anthurium, banana, croton, orange, and peach were inspected. On the following Tuesday, the students were taken to the works of Messrs. Palmer & Co., at Jarrow-on-Tyne, to see the manufacture of pig iron at the blast-furnaces, followed by its conversion into steel by the Siemens-Martin process, the rolling and shearing of steel bars and plates, and the processes of steel-analysis in the laboratory. Mr. A. T. Bill conducted the party.

MR. J. H. HULL, chemist and druggist, Tadcaster, has been elected a member of the local Parish Council.

Photographic Notes.

BY A PHARMACEUTICAL CAMERIST.

PHOTOGRAPHIC LABELS.

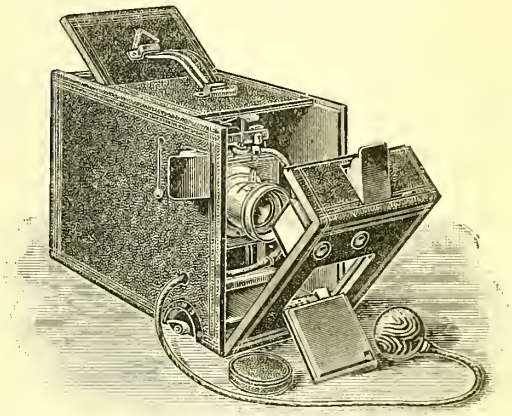
Messrs. James Townsend & Son, Exeter, have introduced a new series of labels for the use of dealers in photographic goods. The stock-design has a sketch of a camera, stand, and other photographic paraphernalia on the left-hand side, and on the top a landscape. The wording on the label can be varied as the customer desires, or a series of stock-wordings is obtainable. I think the labels are an advance on anything of the kind hitherto obtainable; photographic dealers should send for a specimen-sheet.

NEW PRINTING-FRAME.

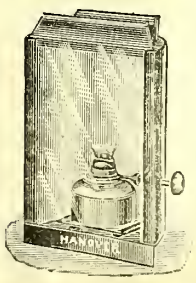
There seems to be no end to variety in the matter of printing-frames. Messrs. Southall Brothers & Barclay, Birmingham, have brought out one quite new in design. The back of the frame cannot be detached, and consequently cannot be lost. The frame is one of the "full view" variety, as with the exception of about ½ inch the whole of the print can be examined at once. To load the frame it is placed face downwards on the table, and pressure applied on the end where two studs project. The pressure raises the spring that fastens the back on and leaves a space for the insertion of the negative and paper, so that when pressure is released they are clipped firmly in place. It is an idea which will take the fancy of many amateurs, and as the makers are a firm well known to chemists, the trade in them will probably be largely in the hands of chemist-dealers.

SOME NEW LINES

in photographic goods are being introduced by Messrs. Evans, Sons & Co., 56 Hanover Street, Liverpool. Among them is a well-made hand or stand camera, on the lines of the "Hanover" cameras and of the same quality and workmanship. The camera is called the "Hanover," and an idea of its working-parts is given by the illustration. The



camera is made of mahogany, leather covered, and is fitted with a RR lens and pneumatic shutter. There is a focussing-scale on the right-hand side for snap-shot work, a focussing-screen and rising front being also provided for use when it is desired to compose the picture. This firm are also turning out "Hanover" roller-blind shutters fitted with speed-indicators. The shutters are fitted with pneumatic releases, and are claimed to have such simple mechanism as never to get out of order. They sell at 16*s.* (quarter-plate) and 17*s.* (half-plate). A behind-lens shutter is also made. This form is adapted for use in square-bellows cameras or for those with cut-out base-boards. The "Hanover" dark-room lamp is an excellent shillingsworth. It burns colza, and is regulated from the outside. It is a D-shaped lamp, about 8 inches high, the ruby glass in the front having an area of 6⅓ by 4½ inches.



Practical Notes and Formulæ.

Silver Ink.

Rub 30 gr. of oxide of zinc with 1 oz. of mucilage of acacia; then add 100 gr. of silver bronze, and 40 drops of spirit. Make up to 2 fl. oz. with rose-water.

Opal for Grease-spots.

Opal is the name of a popular continental speciality for removing grease-spots. According to an analytical report from Dresden it is a mixture of 2 per cent. of acetic ether in 98 per cent. of a 2-per-cent. watery decoction of quillaia-bark. It is said to be a good thing.

To keep Steel Pens from Oxidation.

Have on the desk a tumbler or other similar glass vessel, at the bottom of which a little carbonate of potash has been placed. On it keep a damp sponge, and let the pen rest on the sponge when not in use. This will keep it from oxidation and as good as new for a long time.

Liq. Potassii Citratis.

This U.S.P. solution sometimes shows signs of fungoid growth. Mr. W. A. Chamberlin has examined such a solution bacteriologically, and finds that the growth is due to *Bacillus subtilis*, the micro-organism peculiar to hay-infusions. He recommends that the solution should be made with distilled water used hot.—*Alumni Report*, page 157.

Howard's Antiseptic.

This preparation is used for rendering the tooth-cavities and root-canals antiseptic in dental-work, and has the following composition:—

Carbolic-acid crystals	℥iv.
Oil of cassia	℥j.
Oil of cloves	℥j.
Thymol	℥ij.
Glycerin	℥j.
Tannic acid	℈j.

Mix.

The cavities are saturated with the solution, then lightly packed with cotton-wool dipped in the liquid, and finally sealed with a piece of cotton-wool saturated with sandarac varnish.—*Dental Cosmos.*

Imitation Worcestershire Sauce.

Mr. A. Wangemann communicates the following formula to the *Western Druggist*:—

Pimento	2 dr.
Clove	1 dr.
Black pepper	1 dr.
Ginger	1 dr.
Curry-powder	1 oz.
Capsicum	1 dr.
Mustard	2 oz.
Shallots (bruised)	2 oz.
Salt	2 oz.
Sugar, brown	2 oz.
Tamarinds	8 oz.
Sherry	1 pint
Wine (vinegar)	2 pints

Mr. Wangemann adds the following instructions:—

Let there be added ½ oz. of powdered asafetida and one bruised liver, mixing these with the other ingredients before boiling. Asafetida and liver are added by all makers of this sauce for the trade, since it is these that give the peculiar twang. Worcestershire sauce, originally compounded by an English physician for one of his gluttonous aristocratic patients, is practically intended as a vehicle for the administration of asafetida. The carminative aromatics employed successfully mask the taste of that gum. This is an interesting instance, I believe one of the first, of the "modern" tendency to make nauseous drugs palatable.

The information here given is remarkable, and the statement about asafetida is apocryphal. The formula is not a bad one, but it differs from most of those which have seen the light of day hitherto, and the asafetida is undoubtedly in excessive amount—1 oz. to 10 gals. is the usual amount; the above gives 1 oz. to 1 gal.

Solubility of Peppermint Oil in Alcohol.

A correspondent of the *Apoth Zeit.* mentions that after experiments extending over some years he finds that oil of peppermint dissolves imperfectly in dilute alcohol, and does not give a clear solution in 90-per-cent. alcohol. An oil obtained on the day of distillation gave a clear solution in dilute alcohol, but in a few days the solubility diminished, and after some months it was no longer clear even in 90-per-cent. alcohol. He advises Pharmacopœia authorities to note that the oil loses in solubility through age, but gains in delicacy of odour.

Pricing Sponges.

Mr. E. E. Williams, in the *Bulletin of Pharmacy*, describes a convenient method of pricing sponge he saw in use some time ago. The different-priced sponges were indicated by pieces of twine of different colours drawn through them, a key to the indication being hung in a convenient place for the information of the assistants. For instance, red may indicate 1*s.*, blue 1*s.* 6*d.*, green 2*s.*, white 2*s.* 6*d.*, and so on. A hundred sponges can by this method be marked in five minutes by drawing the twine through the sponge with a darning-needle.

Astringent Mouth-wash.

Tincture of orris (1 in 4)	1½ oz.
Lavender-water	½ ,,
Tincture of cinnamon (1 in 8) ...	1 ,,
Tincture of yellow cinchona-bark ...	1 ,,
Eau de Cologne	2 ,,

Mix.

Tinctures from Living Plants.

Dr. A. Heath, in the *Homœopathic World*, says the use of the living plant is the only proper way of making tinctures—a tincture made from dry pulsatilla is not to be compared in aroma and strength to one made from the fresh plant, as the greater part of the anemonin is driven off in drying. In his opinion vegetable alkaloids become in part insoluble by drying owing to a deterioration of the vegetable acid with which they are associated. As instances, of the important functions of the vegetable acids he mentioned the fact that squills and lobelia act much better combined with an acid than without.

Saffron-reactions.

Professor H. Kræmer, in the *American Journal of Pharmacy*, says the most characteristic test for distinguishing saffron from its substitutes is the effect of the use of concentrated sulphuric acid. If a small quantity of saffron is placed on a watch-glass and moistened with the acid, the stigmas become blue immediately, and in half a minute the solution becomes blue, gradually changing to violet and, lastly, deep wine-red. Under similar conditions carthamus-flowers turn yellow, and the solution is colourless for a short time, but eventually changes to a deep wine-red colour, the change taking much longer than in the case of saffron. Calendula-flowers turn brown or blackish-brown.

Guttapercha and Indiarubber.

In his recent Cantor lectures on indiarubber (which have been published in pamphlet form by the Society of Arts), Dr. Daniel Morris gave, in plain language, a comparison between indiarubber and guttapercha, which are closely allied substances in origin and in chemical composition. They are both obtained from the latex of certain plants, and are composed wholly of carbon and hydrogen, but the similarity ends here. The most conspicuous property of guttapercha is that of becoming soft and plastic on immersion in hot water, retaining any shape then given to it on cooling, when it becomes hard and rigid. Caoutchouc, on the other hand, does not soften in moderate heat, is impervious to water, alcohol, most acids, and gases, and retains for a long period its original elasticity and strength. Guttapercha is obtained only from large trees belonging to one family of plants, the *Sapotaceæ*, confined to one small portion of the world's surface. Caoutchouc is obtained from numerous families of plants, and these are distributed over almost every part of the tropical regions; they may be low herbaceous plants, shrubby climbers, small trees, or majestic giants of the forest, 150 to 180 feet high.

Correspondence.

Notice to Correspondents.

In writing letters for publication correspondents should adopt a concise, but not abbreviated, style. They are requested to write on one side of the paper only. Letters, with or without a nom-de-plume, must be authenticated by the name and address of the writer. Queries should be written on separate pieces of paper, and the regulations printed under the sections to which they apply should be strictly observed.

The Poison Regulations.

Sir,—It seems to me that the poison-indicator required for many of the articles in Schedule 2, which are frequently kept for convenience in the smaller bottles on the shop-shelves, is not a leather cap tied on with string, or even the stopper secured by an indiarubber band, both of these being too great a hindrance to business despatch. On the other hand, an ordinary japanned tin cap is too easily removed to prove a sufficient reminder that a poison is being handled. What is wanted is a cap of a slightly pliable nature, fitting in such a manner as to allow its removal to be distinctly felt without any other complication or loss of time. A cap of this kind, to fit an ordinary 8-oz. W.M. shop-round, is easily made by covering a 2-oz. deep willow box firstly with brown paper to give it body, and then with bright scarlet capping-paper as a finish. A suitable distinctive mark could then be placed on the bottle below the gold label; and I think the designs proposed by Mr. Macpherson in this week's issue are excellent, and I only hope they will soon be obtainable from our printing firms.

Yours respectfully,

131 Milton Road, Gravesend, R. T. Clarke.
March 4.

P.S.—If Mr. Fred Reynolds will send another bottle of rum to his maiden aunt, capped and labelled as I suggest, perhaps he may secure his legacy after all.

Sir,—The turning of special attention to the "keeping, storing, and dispensing" of poisons will doubtless effect a great security against the risk of pouring from the wrong bottle by mistake. It would seem desirable, however, to institute a sort of "intermediate" cupboard for storing some of the milder poisons, which may be required several times a day—*c g.* paregoric, which, being a preparation containing a scheduled poison, of course requires to be kept under the conditions set forth in the new regulations, but if it is to find a home in a common poison-cupboard, I think a greater risk will be substituted for a lesser one. The danger of supplying paregoric instead of tincture of gentian, when both are kept on an open shelf, is nothing compared with the danger involved in mistaking tincture of aconite for paregoric when both are kept in the same poison-cupboard. Of course, a thoughtful chemist will guard against such a mistake, either by using two or more cupboards, or else by adopting alternative "B" for milder poisons and "C" for the stronger; but I am writing on the assumption that as individual discretion and care have not been sufficient under the go-as-you-please system, so they may not be reliable in carrying out the directions of the new rules. I take it that it is only compulsory to adopt any one of the prescribed methods for all scheduled poisons, and the class of chemist who, by carelessness, has rendered the new measure necessary, is just the sort of man who will rest satisfied when he has obeyed the letter of the law.

Yours faithfully,

Marlow, March 6. Walter Duplock.

Sir,—All the proposals for making bottles for poisons "distinguishable by touch" which I have met with appear to be objectionable on one or more grounds: either the distinguisbing feature is already in use for ordinary bottles, as an ornamentation or otherwise, or the addition would be troublesome, or interfere with the wrapping-up in paper, with the labelling, or with the safe and compact packing. What is wanted is some distinctive tangible feature, that may become in time identified with the idea of danger—as is the red light by rail or sea—and at the same time be easily carried out, and free from the above-noted objections. I believe I have hit upon a very simple device, that fulfils all these requirements; it is the formation on the bottle of several knobs or prominences springing from, or from near, the junction of the neck with the shoulders of the bottle. If the regulation "that the bottle to contain a poison must be distinguishable by touch" be alone enforced, without the complementary regulation that bottles so distinguished must not be used for non-poisonous substances, only confusion would result. To meet this difficulty I have taken out provisional protection for the above device, with the intention that while all shall be allowed to use it without charge or restriction for the proper purpose, that is, for bottles to contain poisonous substances, power will be retained to proceed against users of such bottles for innocuous contents. This power I shall be happy to transfer to the Pharmaceutical Society, or other body, as being more capable of carrying out the intention with facility and effect.

B. (208/17.)

Mr. A. H. Jones (Leeds) thinks too much fuss is made about the poison regulations. Chemists have brains enough to tell what are poisons, without having them in different shop-rounds, &c. He makes several suggestions which we have already published, and advocates the sale of all poisons in octagon poison-bottles [hexagons bottles are the usual ones]. Also carbolic acid should be scheduled, and no apprentice should be allowed to sell poisons.

A Rhymer on the Regulations.

Now the poison regulations are the law,
And I tell you what, they touch us on the raw;
For we're working night and day,
And the dickens is to pay,
Now the poison regulations are the law.

There's the cupboard, such a cupboard ne'er was seen,
It's the back-shop, yes, the whole of it serene;
There the poison-bottles go,
Ribbed, capped, labelled all a-row,
And the pots and boxes painted red and green.

It is chockful from the ceiling to the floor,
And the shelves are all crammed three deep now or more,
And on the door the Boss
Painted "Poison" right across,
And he's gone and capp'd the handle of the door.

Now a customer comes in, you'll please observe
How a pennyworth of red precip. to serve;
You first the bottle seek,
Which takes less than half a week,
For we dare not keep it put up in reserve.

Then it's fetch it down, uncap it, then you weigh,
Find the cap, and tie again with more delay;
Put it back upon the shelf,
Swear a little to yourself,
For the labour's lost, and customer away.

But you drop in when passing and explore,
You'll see a sight and hear a vast uproar;
For we're kept upon the trot
Till we're all so jolly hot,
For it's cupboard, cupboard, cupboard ever more.

There's the Boss, and I, and Johnny in we go,
There are Tom and Billy, Dick, and also Joe;
And we struggle round about
(For the Boss is extra stout),
And we scramble o'er each other high and low.

There's the Boss a-reaching high as he can soar,
There is Johnny crawling round upon the floor;
There are two, three at the top
And the blessed steps come flop,
Such a Rugby scrum, you never saw before.

J. A. C.

Indian Experiences.

Sir,—Your correspondent "X.," whose letter appears in your last week's issue, has evidently been unfortunate in his experience of Indian retailers' business. I am not a chemist, but am responsible for sending assistants out to firms in various parts of India, including Calcutta, Karachi, Mussoorie, and Allahabad. I have seen a number of them on their return, and have never heard any complaint of the

way they had to work, or of the treatment received from their employers while abroad. Although one of the firms in India pays fare home at expiry of the four years' agreement, the assistants do not always take advantage of this, bnt stay on. One whose time had expired came home last year, and, after having a holiday, came to see me asking to go back to the firm he had left. Another who had previously been abroad, and therefore knew what was expected of him, was successful in his application for a sitnation with one of the firms I represent.

There are two sides to this as to other questions, and "X.'s" letter shows only one, so I think it only fair the other should be known.

Yours truly,
March 7. A. M. D. (202/22.)

Mr. Hood and Messrs. Ayer.

Sir,—Some little time ago (January 28, 1899) you published a statement which you quoted from "Advertising Experience." It is in reference to our Mr. Hood's breaking away from the J. C. Ayer Company. We wish to say that Mr. Hood was never in their employ for an hour, and that he served five years' apprenticeship as a boy in a drug-store, then about five years with the well-known firm of T. Metcalf & Co., of Boston, where he remained until he opened a drug-store for himself in Lowell. The only connection that he ever had with the J. C. Ayer Company was as an expert in giving them advice in regard to the improvement of some of their preparations while he was in the drug-store.

Very truly yours,
C. I. Hood & Co. (Limited),
Colver Gordon,
Managing Director (C. I. Hood & Co., Limited).
34 Snow Hill, E.C., March 4.

Re Government Pharmacists.

Sir,—I read with amusement the scheme suggested by "Behind the Counter" in yonr issue of March 4 [that the Government should establish dispensaries, making pharmaceutical chemists Government officials], and I think, did such a rash proposition ever come into practice, it would not only be a gross injnstice to the chemist, but a folly to the Government adopting it.

In the first place, it would take away the value of qualification to the chemist, except to those who should be so fortunate as to obtain these Government appointments, and these men, according to "Behind the Counter's" views, should be only pharmaceutical chemists. Why he shonld lay such stress upon the adjective I do not know, but I should consider a Minor man equally capable of dispensing a prescription correctly.

In the second place, instead of proving a source of revenue to the Government, in my idea it would be a decided loss.

With all due respect to the long experience of "Behind the Counter," that experience cannot have been very varied, else he would know that the profits on dispensing and the sale of poisons alone would not, in 80 per cent. of the cases, pay the rent and taxes of the premises occupied, let alone the large salaries he so longingly anticipates.

He speaks of chemists as universal providers: this only adds further proof to the fact that chemists nowadays (including dispensing and the sale of poisons) cannot get a fair living from their legitimate business, and to take away part of their income as "Behind the Counter" suggests would only cause many to migrate into other trades altogether.

Yours faithfully,
Cortex. (205/70.)

The Medicine-stamp in Ireland.

Sir,—As you are aware, a new size of Hood's sarsaparilla has been brought out. The proprietors have fixed the price for this at 10*s.* 6*d.* per dozen, wholesale, stamped But in Ireland we are expected to pay the same sum for the article unstamped, and the proprietors require that it be not sold at less than 13½*d.* per bottle.

I have pointed out to them that it is illegal to ask 13½*d.* for a bottle unless one supplies a stamp, as they state on every stamped bottle that the value is not above 1*s.* The extra 1½*d.*, then, is for the stamp, and to charge it without giving the stamp is illegal.

Thanks to your assistance, some other manufactnrers who had been snpplying ns with unstamped goods at stamped prices have since changed their ways.

Yours truly,
19 North Earl Street, Dublin. J. C. McWalter.

Dispensing Notes.

This section is intended for the elucidation of dispensing difficulties. Subscribers and their employés may contribute to it, criticising any of the following notes or contributing notes on prescriptions which they have found to be of unusual interest.

What is Ol. Camph. ?

Sir,—I should like your opinion on the following :—

Potass. iodidi	...	...	...	℥j.
Ol. camphor....	...	...	...	℥j.

M. Ft. lin.

Should lin. camph., B.P., be used, or ol. camph. essent.? I say the latter, but several chemists have dispensed it with lin. camph. The prescription was written in 1888.

Yours truly,
Dispenser. (191/33.)

[Lin. camph. is ol. camph., and always has been, although the B.P. has but recently re-officialised the latter name. We may note, however, that potass. iodid. is insoluble in oil.]

Minor Practice.

Sir,—You publish this week a copy of the dispensing-paper I had at the Christmas examination. Five students had the same paper in my room, and attempted the plaster, and none of us finished the work, which, apparently, was not expected to be finished. At my first examination in October, I had the following four prescriptions only: —

1.

Ext. nucis vom.	...	...	...	gr. ½
Quininæ sulph.	...	...	...	gr. iij.

M. Ft. pil. Mitte vj. Argent.

2.

Ext. conii ...	...	...	...	℥j.
Lin. camph. ...	...	...	...	℥iss.

M. Ft. lin.

3.

Ol. terebinth....	...	...	...	℥vj.
Spt. chlorof. ...	...	...	...	℥iij.
Ovi vitelli ...	...	...	...	j.
Syrupi... ...	...	...	...	℥ss.
Aq. cinnam. ad	...	...	...	℥vj.

M. Ft. emul.

4.

Liq. plumbi subacet.	...	...	Oss.

Deliver cold.

The above I did in two hours comfortably. I passed in dispensing at both examinations.

Yonrs truly,
Salix Nigra. (199/1.)

Dispensing-problems Solved.

190/64. *Antiburton* sends ns the following solutions of dispensing-problems proponnded in the *C. & D.*, December 31, 1898, page 1058.

Bismuth-mixture.

Sodii bicarb. ...	...	...	...	℥ij.
Glyc. ac. carbol.	...	...	...	℥j.
Liq. bismuth....	...	...	...	℥ss.
Aq. chlorof. ad	...	...	...	℥viij.

(The problem was to make a clear mixture.) Using sodii bicarb. cryst. pur., he dissolved it in the aqua chlorof., added the glyc. ac. carbol. and enough water, so that there was just room for the liq. bismuth., which was added last. The mixture remained clear for three days. Without the glyc. ac. carbol. the mixture became slightly cloudy in twelve hours.

CALAMINE-LOTION.

Calamin.	℥ij.
Zinci oxid.	℥ij.
Ol. lini	℥iv.
Sulph. ppt.	gr. xxx.
Lotio ac. carbol. (1–40) ad	℥xvj.

(The problem here was to turn out a nice cream.) Rub down the powders with an equal weight of water; then heat on a water-bath with the ol. lini for half an hour, with constant rubbing. Add gradually the rest of the water, and, when cool, the phenol. Proceeding this way a very presentable cream is produced.

LEAD-LOTION.

Ac. carbolic.	♏xxv.
Ol. eucalypt.	♏v.
Ol. amygd. dulc.	ʒiss.
Lotio plumbi ad	℥ij.

(A presentable lotion was asked for here.) "Antiburton" says it cannot be made presentable as written. The following variation yielded a milky fluid:—Heat the almond oil and ʒj. of water with 10 gr. of carbonate of potash on a water-bath for half an hour, cool and add gradually with shaking the ol. eucalypt. and phenol, and the rest of the water, leaving room for the liq. plumbi and alcohol, 10 drops of each, to be added last. Quillaia did not answer as an emulsifying agent. Our correspondent asks if his method is permissible. We think it is.

Solubility of Bismuth Salicylate.

SIR,—Mr. Wyatt, in his valuable dispensing notes (*C. & D.*, February 11, page 246), stated that bismuth salicylate was soluble in solution of ammonium citrate. The following prescription is somewhat similar:—

Pot. cit.	gr. x.
Bismuth. salicyl.	gr. v.
Tr. card. co.	ʒss.
Aq. ad	ʒj.

Dispensed as written, it would have the salicylate floating on the surface of the fluid, but, remembering Mr. Wyatt's experience, I took the precaution to apply a little heat, and the salicylate dissolved. It was dispensed in this way because I found that without heat the mixture became clear after standing a few hours. As the change would take place at the patient's house, and might cause some alarm, I trust you will consider such a procedure admissible. Finding a demand in prescriptions for the above salts, a solution of potassium citrate, containing 10 gr. in the drachm, was made, and in this was dissolved, with the aid of heat, 5 gr. of bismuth salicylate. The solution, when filtered from the few remaining specks, was light red in colour and of a sweetish taste, strongly suggesting that a double change had taken place, and that the prescriber's original intention had been defeated. Yours faithfully,

London. GEORGE ROE.

Legal Queries.

We do not give legal opinions by post. Information regarding most legal matters in connection with pharmacy will be found in THE CHEMISTS' AND DRUGGISTS' DIARY, *and in "Pharmacy and Poison Laws of the United Kingdom," and Alpe's "Handy-book of Medicine-stamp Duty."*

205/28. *Apiol.*—We do not think your label would render the cough-syrup liable to medicine-stamp duty; but you might make certain by sending the label to Somerset House, as explained in the DIARY, page 213.

197/21. *C. G. B.*—Chloroform is a scheduled poison; alcohol is not.

201/39. *N. B.*—Unqualified persons may describe their places of business as "drug-stores."

200/30. *Ignoramus.*—The poison regulations apply to scheduled poisons only.

43/2. *B. P.*—Licensed medicine-vendors may open a stamped box of pills and retail out the contents if they do not make up a new packet. They may screw the pills up in paper, but must not seal it, nor put them in a box.

202/19. *Wilts.*—We have not heard of any intention to appoint an inspector to see that the poisons regulations are carried out. If one were appointed he would not have authority under the Act to enter your warehouse without your consent.

199/18. *A. T.*—A glass cap covering the stoppers of your poison-bottles on the shelves with other bottles would fulfil the requirements stipulated by the poison regulations.

207/37. *Gentian.*—We do not think your label renders the elixir liable to medicine-stamp duty, but you can get an authoritative reply by sending it to Somerset House as explained in the DIARY, page 213.

Miscellaneous Inquiries.

Notice to Querists. *We reply to subscribers and their employés only upon subjects of interest to other readers generally. When more than one query is sent write each on a separate piece of paper. When a sample accompanies a query full particulars regarding the origin and use of the sample must be given, and it must be distinctly labelled. Queries are not replied to by post, and those sent anonymously are disregarded.*

187/67. *Ferox*—**Linen-glaze Block.**—This is made by massing French chalk with melted hard paraffin in a hot mortar. For use the blocks are rubbed both on the linen and the smoothing-iron.

187/1. *A. D.*—**Children's Hair-cleaner:**—

Pulv. quassiæ	℥iv.
Pulv. boracis	℥vj.
Pulv. sodii bicarb.	℥vj.
Ol. origani	♏xx.
Ol. limonis	♏xx.

Mix together the borax and soda and put in a damp place for a day or so; then dry, and mix with the quassia and perfumes. Weigh into ½-oz. packets. The directions should order 1 pint of boiling water to be poured on the contents of the packet. The resulting lotion, when sufficiently cooled, is to be freely applied to the head.

192/58. *G. H. H.*—Fluorescein is resorcin-phthalein anhydride, and is prepared by heating together in molecular proportions phthalic anhydride and resorcin. It is but sparingly soluble in water, its increasing solubility in the presence of sodium bicarbonate being due to the formation of a sodium salt known as uranine. Fluorescein is used in a 2-per-cent. solution with 3 per cent. of sodium bicarbonate to diagnose corneal lesions. A normal cornea is not stained but in the case of ulcers a temporary green colour is produced.

197/26. *H. D. T.*—**Schulze's Chlor.-iodine Solution.**—Squire's formula is as follows:—Evaporate 100 c.c. of liq. zinci chlor. (B.P.) to 70 c.c; dissolve in it 10 grammes of potass. iodide, then add 0·2 gramme iodine. Shake at intervals till saturated.

182/41. *W. P.*—The sample of Puncture-locater you send appears to be merely an aqueous solution of methylene blue. It is interesting, if true, that it "not only locates but mends the puncture."

192/39. *G. J.*—Meissl's method for detecting **Boric Acid in Milk** is reliable. The test is applied as follows:—100 c.c. of milk are made alkaline with milk of lime, evaporated and incinerated. The ash is dissolved in the smallest possible quantity of strong hydrochloric acid, the solution filtered and evaporated to dryness. The residue is then moistened with a drop or two of very weak hydrochloric acid and tincture of turmeric, and evaporated on a water-bath. The presence of but mere traces of boric acid produces a cherry-red colouration.

198/30. *Temperance.*—We must refer you to the chapter on drunkenness-cures in "Pharmaceutical Formulas," as the short summary we could give you here would not give the full details you ask for.

196/74. *Novum.*—For information regarding the Medical curriculum get our last Educational Number from the publisher (4*d.*).

196/10. *A. T. E. T.*—There is no book published of "Rhymes on the B.P., 1898."

194/47. *Beta.*—The moulds in which wax is cast require well oiling or soaping, to prevent the wax sticking.

197/6. *Pushful.*—For colouring custard-powder, in place of turmeric, which is not always satisfactory after baking, use fluid extract of saffron or azo-orange dye, as recommended in "Pharmaceutical Formulas."

198/24. *F. T.*—The lectures of the Paris School of Pharmacy are open to any person, whether proceeding to the examinations or not, provided the student pays the fees for the laboratory courses.

197/90. *Viator.*—The Worm-powder for Dog, which you say is very effective, consists of—

Kamala	gr. xxv.
Santonin	gr. iij.

Mix.

204/68. *A. E. I.*—Book on Massage.—Ellison's "Manual for Students of Massage," 3*s.* 6*d.* (Baillière).

193/48. *Inquirer.*—Keeping Garlic.—The best way is to bury the garlic in dry silver-sand, but the process is only good for a limited time. The method you suggest of pickling would answer.

189/52. *J. B.*—Dog-food.—The sample consists of dried blood and powdered bones, and would be a nutrient to a dog.

200/32. *Wines.*—We are unable to refer you to a book on British-wine making.

202/19 *Wilts* —Lantern-slides for Drawing on.—The glass needs no preparation if Indian ink thinned with syrup is employed. Some workers recommend moistening the glass with saliva, which gives a sufficient coating to the glass to enable ordinary ink to be used without spreading. The most usual way, however, is to fix, wash, and dry an unexposed lantern-plate. The resulting surface is well adapted for drawing on.

204/27. *A. D.*—Tr. Quin Ammon. made with ammon. carb. *vice* liq. ammon.—Mr. Lunan's formula is—

Carbonate of ammonia (32·5 per cent. NH_3)	325 gr.
Quinine sulphate	160 gr.
Distilled water	10 oz.
Rectified spirit	10 oz.

Dissolve the carbonate in the water; add the spirit and the quinine; shake until dissolved, and filter. Make up the product to 1 pint with distilled water.

201/39. *Veterinary.*—White Scour, or "skit," in calves is caused by disagreement of the milk or artificial substitutes. Skim-milk, or the separated article, is too often given cold and at too long intervals. One cannot prescribe drugs that will take the place of proper management, hygiene being as important to animals as to man. See to this, and prove your practical knowledge to your customer. The best vets. agree that a preliminary aperient of castor oil is advisable, as all fatal cases are found to have a mass of curdle in the rumen, and this should be broken up before any astringent remedy can be of service. Afterwards give a fourth part of lime-water with the milk, and a bismuth-mixture in which aromatics form a goodly proportion. None of the cordial-carminative class answer better with ruminants than capsicums, ginger, fenugreek, gentian, cummin, and aniseed. If the lime-water cannot be given, add a few grains of bicarbonate of soda to the mixture. Preach sanitation, as tied-up calves are generally in a filthy state, and there is reason to suppose that skit is sometimes infectious.

200/61. *Major.*—From your letter we do not gather what kind of toilet-cream you require. It would be better for you to consult "Pharmaceutical Formulas." The recipes for toilet-preparations there given are very numerous.

194/41. *J. P.*—Spirit-bitters.—The following is from "Pharmaceutical Formulas," where there are several other good recipes for the same class of bitters:—

Rad. gentianæ	℥xvj.
Sem. coriandri	℥xvj.
Rad. calam. arom.	℥iv.
Ras. sassafras	℥iv
Sem. carui	℥iv.
Cort. cassiæ	℥iv.
Caryophylli	℥ij.
Aloes capensis	℥j.
Spt. tenuior.	Conj. xx.

You should note that to make the above you will require a compounder's licence, about which you should consult your local Excise officer.

40/15. *Bucher.*—Mr. Wright's modification of Grazer's process of making Ext. Cascar. Sagr. Fl. sine sapore is one of the best that has been published. The details of the process are as follows:—

Cascara-bark, in No. 40 powder ...	1 lb.
Calcined magnesia	2 oz.
Distilled water	1½ pint
Proof spirit	a sufficieucy

Mix the powders in a large mortar and beat into a paste with the water. Allow to stand for twelve hours and dry over a water-bath. Reduce the dry mass to powder, moisten with 18 oz. of proof spirit, and pack tightly in a series of six percolating-tubes. Percolation is then effected with proof spirit, the percolate from No. 1 tube being used as the menstruum for No. 2, and so on until the last of the series is reached. Proof spirit is added to No. 1 tube as required, and the first 14 oz. which passes through the last tube is retained. Percolation is continued until the bark is exhausted. From the remaining portion of the percolate the spirit is recovered by distillation, and the residue evaporated over a water-bath to the consistence of a syrup. This is added to the reserved portion, and the volume made up to 16 oz. with proof spirit.

Urban's process is a similar one, but lime is used in place of magnesia. All such liquors become inert.

188/19. *Stearin.* — Impression-wax. — Your sample of this is a little too sticky when softened. This is due either to the use of stearin of too low a melting-point, or an excess of gum dammar. With the same sample of stearin, you would probably succeed better if you reduced the gum dammar a little. We had a sample quite the opposite to yours.

199/3. *H. & M.*—The sample of green canvas appears to have been dyed with acid-green—one of the triphenyl-methane colours. We do not know the details of the process.

190/36. *Ammonol.*—Glacial acetic acid, applied by means of a small camel-hair brush, is the best caustic for removing small warts from the head.

185/57. *J. T. B.*—We think the cause of the deposit in your bismuth-mixture is due to the use of a slight excess of ammonia.

205/46. *Sperans.*—Linseed oil has no "flash-point." At about 600° F. it gives off volatile organic acids and gaseous hydrocarbons, but they are the result of decomposition.

201/42. *H. T. D.*—Weed-killer.—See *C. & D.*, January 1, 1898, page 30, or April 2, 1898, page 564.

201/46. *J. N. L.* (Adana).—If by "Lister's antiseptic powder" you mean boric acid, it is perfectly harmless, and can be freely used on wounds.

23/2. *A. A.*—(1) Toilet cream, see *C. & D.*, October 30, 1897, page 712, and December 11, 1897, page 938. (2) Toilet-powder, see *C. & D.*, December 31, 1898, page 1036. (3) Your customer's negative was not free from hyposulphite

of soda when he began to intensify his negative. Prolonged washing, however, will remove most of the markings. (4) Dandruff pomade :—

Ac. salicyl.	... ...	gr. xxx.
Sodii bibor.	... ...	gr. xv.
Bals peru	... ...	gr. xxx.
Vaselini	... ...	℥j.
Ol. cinnam.	... ...	♏iij.
Ol. bergam.	... ...	♏x.

M.

48/12. *C. H. J.*—The addition of oil of thyme to your furniture-polish would improve the odour, which, however, we do not find disagreeable.

206/72. *Alkaloid.*—The consistence to which the solution of citrate of iron and quinine is evaporated has an important influence on the size of the scales in the subsequent operations. The temperature of 100° F. should not be exceeded, or exsiccation will take place.

Information Supplied.

Cheap Powder-folder.—Take two blocks of wood sawn square off—one 3½ by 2 inches, and one 3 by 2 inches. Screw them together in the middle, sinking the head of the screw level with the wood. With this simple arrangement packets can be folded of four lengths—2 inches, 2½ inches, 3 inches, and 3½ inches. V. (193/39.)

Information Wanted.

The Editor will be obliged for replies to the following from any who can furnish the information.

206/36. Makers of Pusol, a freckle-remedy.

204/13. What nut is it that is used for flavouring butter?

205/22. Address of importers of "Lugano" brand of liquorice.

29/72. Where is peat for surgical purposes obtainable in bulk quantities?

193/16. Formula for firemen's-cramp mixture, as supplied to sea-going firemen.

208/31. London agent for Hanson and Van Winkle Co. American nickel salts.

Aërated Waters.—At home the vending, and in many instances the manufacture, of aërated waters is looked upon as the lawful business of the chemist. In Cape Colony, especially in Cape Town, the opposite opinion appears to be held, for the trade is almost solely in the hands of Jews. There is much room for improvement in the sanitary conditions under which such waters are produced, and the machinery used is far from being the latest in design. Pending the introduction of aërated-water manufacture as a pharmaceutical side-line there is a growing demand for English-made beverages, and Schweppe's soda at 1*s.* per bottle finds a ready sale amongst those who can afford it.

A Branding-mixture.—Mr. H. W. Scott, pharmaceutical chemist, formerly of Stratford, but now of Wellington, N.Z, applied for a patent in respect of a liquid composition for branding cattle, called "Scott's liquid cattle-brand." This was opposed by the Gibson Patent Brand Company (Limited), who owned the patent granted to Harrison Gibson for a branding-composition consisting of the sulphides of the alkalies and alkaline earths, preferably sulphide of barium, and American potash, as its active ingredients. Scott's application consisted of what the objectors claimed was a chemical equivalent of their composition, *i.e.*, it had caustic soda as the chief ingredient. The matter was taken into Court and decided against Mr. Scott, with costs 16*l.* 19*s.* 6*d.* He is concerned in a similar action in New South Wales.

Argols.

The United States Bureau of Commerce at Washington has just published reports from consular officers in Europe on the production of argols. All the Consuls have pretty much the same story to tell. The Havre Consul furnishes the best information. He says the most important tartar-producing localities of Europe are those adjacent to Messina, Naples, Palermo, Bordeaux, Lyons, Marseilles, Lisbon, Barcelona, and Tarragona, all of which are viticultural centres. The greater part of the tartar imported into France comes from Portugal, Spain, Italy, Turkey, Algeria, and Tunis. That exported is shipped to Russia, Great Britain, Germany, Italy, and the United States, the last-named country taking more than double the quantity shipped to all the other countries combined.

The wines producing the largest quantities of tartar in France are those of the extreme South, and trade in the article is limited to Marseilles, Bordeaux, and Lyons. An ordinary French wine-barrel (60 gallons) yields from 1 lb. to 2 lbs. of crude tartar, which the viticulturist sells to the tartar-manufacturer, who either disposes of it in its crude form or refines it into cream of tartar. The process of preparing tartar is simple and inexpensive. The crude product is generally taken from barrels in which wine has lain for three or four years. The longer the wine remains in the barrel, the better the wine and more abundant the lees, which form a deposit of about 1 or 2 inches in thickness. About 30 per cent. of the deposit is crude tartar. The wine being drawn off, the sediment is removed in a crust, usually detaching itself in irregular cakes, which are dried and coarsely ground, in which state the substance is sold to the manufacturer, who boils it in water until it is entirely dissolved. The solution is then drawn off into shallow metal or earthenware receivers, upon the bottom and sides of which it forms a mass of crystals. The mother liquid yields a second or third crop on reboiling.

Crude tartar contains about 66 per cent. of bitartrate of potash, and is sold by the manufacturer at about 4*d.* per lb. It is packed in barrels containing about 1,000 lbs. each. Lees are sold at about 2*d.* per lb.

In Italy the small wine-growers collect the deposit of argol from the wine-vats and sell it in local markets to "tartarari," or tartar-men. The "tartarari" dispose of their bulks to larger dealers in more important centres, who, in turn, deliver a gross bulk in casks to the wholesale houses for export. A large portion of the argol in Italy is converted into cream of tartar and tartaric acid, and in the Castellamare di Stabia district there are sixty small refining factories. The largest exporting houses are in Naples.

In Spain the process for extracting argol is similar to that in France. In the case of fine wines, however, the barrels are left undisturbed, and the tartar is sometimes allowed to accumulate for forty years. The amount of tartar annually produced in Spain is considerably more than double the amount exported, as there is a large home demand by the manufacturers of cream of tartar.

As regards Germany, the Consul at Mainz reports that since the introduction of aniline colours as dyestuffs argol has almost entirely lost its value as an article of commerce, and the wine-growers consider argol rather an impediment to keeping their casks clean than an article of profit. The Mannheim Consul says that, in consequence of the duty on tartaric acid in France, Austria-Hungary, and Italy, and the absence of one in Germany, these countries are now introducing tartaric acid into Germany at 10 per cent. less than they dispose of it at home. To counteract this the German manufacturers desire a duty of about 10m. per 100 kilos. to be put upon it.

It is interesting to note that the U.S. Bureau of Commerce has obtained all this information on behalf of Californian vine-growers, who think that they may yet be able to compete with imported argols.

Almedina or Potato Gum is a kind of indiarubber which is obtained from the Portuguese colonies, especially East Africa. It is supposed to be yielded by a euphorbiaceous plant.

Trade Report.

The prices quoted below are the bottom prices obtained for bulk quantities by importers and manufacturers, who do not supply retailers. They are in many cases exclusive of various charges.

42 Cannon Street, London, E.C.: March 9.

BUSINESS has been quiet this week, and in drugs buyers are awaiting the auctions to be held next Thursday. Even quinine was quiet until yesterday, when speculation was resumed. Varnish-gum sales were held to-day, and are reported in this issue. The following are the principal changes of the week:—

Higher	Firmer	Lower
Euonymus-bark	Ammonia sulphate	Acetate of lime
Golden-seal	Borax	(brown)
Gum animi	Oil, citronella	Cocoa-butter
Henbane	Tin crystals	Oil, bergamot
Leptandra		Oil, cod-liver
Otto of rose		Oil, lemon
Quinine		

The following are among the arrivals this week up to March 8:—Aloes (Cape), 20; asafetida (Bombay), 94; buchu, 6; cardamoms, 20; cassia oil, 56; castor oil (Ital.), 30; cinchona, 53; (Java), 41; (Ceylon), 46; cod-liver oil, 285; galls (Persian), 573; gamboge, 5; gentian, 9; gum olibanum, 125; iodine, 15; ipecacuanha (Cart.), 8; lime-juice (W.I.), 162; lime oil, 9; opium, 13, (Prsn.), 80; orris (Ital.), 12; musk, 3; quicksilver, 602; quillaia, 854; sandal-wood, 114; sarsaparilla, 24; senna (Alex.), 7; saffron, 2; tamarinds (E.I.), 50; and vanilla, 6.

Linseed-oil Pool.

The representative of a recently-formed American syndicate has been visiting Hull for the purpose of inducing the local oil-milling companies to join a projected gigantic combination in oils and feeding-stuffs. It is understood that considerable success has attended the efforts of the syndicate in London, Liverpool, and other towns, but it is not yet certain whether the Hull firms will join. It is estimated that in Hull alone there are about thirty-six oil-mills, ranging in value from 5,000*l.* to 40,000*l.* each.

The Tortoiseshell Trade.

Last week's *Nature* contains an article on the trade in tortoiseshell. It is largely based upon trade-circulars of Messrs. Lewis & Peat. The article deals with the origin of the shells, the quantities annually consumed, the different varieties, and the price obtained for them. Great Britain, France, Japan, China, and the United States are the principal consumers of this commodity, of which enormous quantities are consumed annually, but it is believed by this authority that there is no real danger of the reptile being exterminated. The uses of tortoiseshell are also referred to. It is worked practically in the same manner as horn, and is exceedingly amenable to steam, heat, and pressure; indeed, it seems to be more easily moulded than horn, because the dust and scrapings are collected, steamed, and remoulded into solid pieces, from which articles may afterwards be turned or carved.

Java Quinine.

A meeting of the shareholders of the Java Bandoeng Quinine-works was held there on January 23, Baron van Heeckeren (director of the company) occupying the chair. The first point of the agenda, the election of a director, was quickly disposed of, after which the terms of dismissal of Mr. H. J. van Prehn were considered. Until December 14 last the management of the company had been vested in Mr. van Prehn as technical director, jointly with the commercial director, Baron van Heeckeren, but on that date, at a general meeting, Mr. van Prehn was removed and the office of technical director abolished. A committee of shareholders was appointed to report on the subject, and it was now proposed—

1. That the dismissal of Mr. van Prehn should take effect from December 14 last.
2. That the conditions of his dismissal should be definitely settled only after the balance-sheet had been dealt with.

The articles of association required alteration in accordance with the committee's report, and after an amendment increasing the maximum number of directors on the board from four to five had been adopted the whole proposal was carried unanimously. As, however, pending the approval of the alteration of the articles of association by the Government, the office of technical director, vacated by Mr. van Prehn, had to be filled temporarily, the meeting appointed to this post Mr. Smit Sybinga, who had acted since Mr. van Prehn's removal.

Board of Trade Returns.

The Board of Trade statistics for February are again satisfactory, the exports of British and Irish produce showing an increase of 1,740,557*l.*, the figures being 19,382,406*l.* as compared with 17,641,849*l.* in February, 1898. The exports for the two months amounted to 39,729,640*l.*, against 36,873,253*l.*, or an increase of 2,856,387*l.* The foreign and colonial merchandise exports for the month also show an increase of 550,573*l.* As regards British imports there is a slight decrease of 184,180*l.*, the amount of goods imported being worth 35,586,694*l.*, against 35,770,874*l.*, but on the two months there is an increase of 1,103,135*l.*

Turning to individual articles in the imports, we note increases in chemical manufactures and products of 22,353*l.*; brimstone, 373 cwt.; indigo, 135,160*l.*; saltpetre, 7,070 cwt.; cocoanut oil, 16,749*l.*; turpentine, 59,337*l.*; gum arabic, 4,428 cwt.; seed-oil (all kinds) 52,170 tons; unenumerated drugs, 27,628*l.*; ginger, 3,935 cwt.; unenumerated spices, 4,542 lbs.; and quicksilver, 84,804*l.*

On the other hand, decreases occur in cinnamon, 1,879*l.*; pepper, 1,852*l.*; cocoa, 17,180 lbs.; ditto, prepared, 11,470 lbs.; alkali, 3,784*l.*; borax, 557*l.*; dyes, 6,457*l.*; olive oil, 13,489 tuns; palm oil, 1,152 cwt.; petroleum, 20,982*l.*; and Peruvian bark, 12,183*l.* Among the exports under the head of chemicals and chemical and medicinal preparations, there is a decrease of 32,504 cwt. (3,915*l.*) in alkali, the total shipments being 251,609*l.* as against 284,113*l.* The exports to the U.S.A. fell off by 46,476 cwt. compared with February, 1898, and the other countries who imported increased quantities from us last month were Holland, Spain, Canaries, and Australasia. In bleaching-materials there was also a slight shrinkage of 504 cwt., and, although exports of sulphate of copper decreased by 539 tons, the value of the shipments increased by 17,493*l.* Drugs and medicinal preparations show an augmentation of 10,682*l.* for the month, the figures being 87,217*l.*, against 76,535*l.* last month; so far this year has been a good one for drug exports. "Other articles," classified under chemicals, increased by 16,765*l.*

Heavy Chemicals.

[*These prices are for market-centres other than London.*]

There have been only few alterations in the heavy-chemical market since last writing, and with a fair all-round business passing both for home and export, values are for the most part generally steady and well maintained. Sulphate of copper is unchanged. Zinc salts are very firm.

Alkali Produce.—Bleaching-powder is moving well: softwood casks on rails 4*l.* 10*s.*, f.o.b. Liverpool; 4*l.* 12*s.* 6*d.* Tyne; locally, 5*l.* 5*s.* Ammonia alkali, 58 per cent., firm, at 4*l.* 2*s.* 6*d.* to 4*l.* 5*s.* per ton on rails in bags. Soda crystals steady, f.o.b. Liverpool, 57*s.* 6*d.*; f.o.b. Tyne, 52*s.* 6*d.* Saltcake firm, and a shade higher at 31*s.* to 32*s.* 6*d.* per ton in bulk, free on rails. Bicarbonate of soda, 6*l.* to 6*l.* 5*s.* f.o.b. Liverpool, in 10-cwt. casks; and 6*l.* 10*s.* in 1-cwt. kegs. Soda ash, 48 per cent., caustic and carbonated, 4*l.* 5*s.* to 4*l.* 17*s.* 6*d.* free on rails. Yellow prussiate of potash scarce, and figure for best Lancashire makes is now 7¾*d.* to 8*d.* Chlorates unchanged. Potash, 3½*d.* to 3⅝*d.*, according to quantity; and soda, 3¾*d.*

Sulphate of Ammonia is very firm, and higher. Beckton, 10*l.* 7*s.* 6*d.*; Beckton terms, 10*l.* 5*s.*; Hull, London, and Leith are all about 10*l.* 8*s.* 9*d.* Exports from Leith last week amounted to 869 tons.

Bichromate of Soda.—English and Scotch deliveries, 2¾*d.* per lb. less 6 per cent. Export, 2½*d.* per lb. net, f.o.b. Glasgow.

Bichromate of Potash.—English and Scotch deliveries, 3½*d.* per lb. less 6 per cent. Export, 3¼*d.* per lb. net, f.o.b. Glasgow.

Tin Crystals are very firm, and a shade higher.

Barium Products meet with a steady inquiry. Chloride, best refined crystals, 6*l.* 17*s.* 6*d.* f.o.b., and 6*l.* 15*s.* free on rails. Precipitated sulphate (blanc fixe), 6*l.* 12*s.* 6*d.* to 6*l.* 15*s.* Mineral sulphate of barytes, 42*s.* 6*d.* to 72*s.* 6*d.*, according to percentage and quality. Hydrate of baryta, best quality crystals, 12*l.* to 13*l.* Mineral carbonate of barytes scarce, and little offering for prompt.

Magnesium Salts. — Carbonate, 37*s.* 6*d.* to 40*s.* per cwt.; calcined magnesia, 1*s.* to 1*s.* 4*d.* per lb.; sulphate (Epsom salts), 2*l.* 15*s.* to 3*l.*; chloride, 2*l.* 10*s.*

Nitrate of Soda.—Higher, ordinary now standing at 8*s.*

Brown Acetate of Lime is a trifle lower again, at 5*l.* to 5*l.* 2*s.* 6*d.* c.i.f.

Liverpool Drug-market.

Liverpool, March 8.

Castor Oil.—There has been more inquiry for first-pressure French, and the value to-day may be taken as 2$\frac{7}{16}$*d.* to 2$\frac{15}{16}$*d.* The forward markets, Calcutta and first-pressure French, are both firmer, and slightly higher quotations are asked by shippers. Good seconds Calcutta on the spot are held for 2$\frac{15}{16}$*d.*, but the transactions are small.

Quillaia-bark.—Notwithstanding the heavy arrivals, importers are firm at 15*l.* to 15*l.* 10*s.* per cwt

Bees'-wax.—The demand for this continues, and stocks have been greatly reduced. Chilian ranges in value from 7*l.* to 7*l.* 15*s.* per cwt., according to quality. A lot of Sierra Leone, about 42 ballots, is held for 6*l.* 2*s.* 6*d.* to 6*l.* 5*s.* per cwt.

Gum Acacia.—Stocks are small at the moment, but arrivals are in view, and holders talk of the continuance of current values.

Honey.—Californian: Reports from California speak strongly of a short crop during the coming season. There is a want of rain, and the sage-plant shows little or no blossom. Some bee-keepers are trying to sell their outfit. For the remaining small stock of liquid on this market 45*s.* is asked. Amber and fine yellow set are held for 37*s.* 6*d.* and 40*s.* respectively. Chilian remains firm at the values recently advised.

Chillies, S.L.—The new crop is arriving very slowly, and shipments up to the present are much below those of last season. Prime bright red are still worth 40*s.* to 42*s.* 6*d.* per cwt.

Carnauba-wax is still stiffening in value, and some say it will be dearer.

German Drug-market.

Hamburg, March 7.

The position of our drug-market has undergone little change since last week; only a very few articles show a brisk trade.

Camphor (Refined) is firm, but without much business; to-day's quotations are 350m. to 345m. per 100 kilos.

Coca-leaves are very firm at 250m. per 100 kilos.

Cumin-seed.—Steady, at 60m. to 62m. per 100 kilos. for Maltese of new crop.

Cevadilla-seed shows a firm market at 78m. to 80m. per 100 kilos., and owners are not eager to do business.

Ergot of Rye is tending lower and neglected; the present price is 200m. to 190m. per 100 kilos.

Ipecacuanha (Rio) is not offering. Cartagena is quoted 17m. per kilo.

Menthol is easier at 15¾m. per kilo.

Lycopodium shows a very firm market at 247½m. to 250m. per 100 kilos.

Quinine is very firm, with a brisk trade for England and the United States; the factories quote nominally 44m.; in second-hand 45m. per kilo. has been paid to-day.

Wax, Carnauba, is firm at 77½m. to 130m. per 100 kilos., according to quality. Japanese, 60m. to 61m. per 100 kilos on the spot.

Cod-liver Oil is very quiet at 58m. per barrel for medicinal.

Oils, Essential.—Peppermint is also quiet, HGH at 4.95m. per lb.; Japan, 7½m. per kilo.; Star-anise, 13¼m. per kilo.; and Caraway-seed, 0.910, 9½m. per kilo.

American Market.

New York, February 28.

Business has resumed its normal activity now that transportation facilities have been restored after the recent storms. The market is generally steady, and the tone firm. Large transactions are not numerous, but the general volume of business is good.

Camphor continues in active demand, and quotations are firm at the recent advances. Domestic refined is held at 45c., and Japanese is quoted at a similar figure. Recent arrivals of over 1,000 cases have not weakened the market.

Cascara Sagrada continues to harden. Large sales have been made at 7c., and prices have been advanced to 7½c. to 8c. Some holders decline to sell even at the advanced figure.

Golden-seal (Hydrastis) is very scarce on the spot, only a few small lots being obtainable; 70c. to 75c. is asked, but small packages can be obtained at a lower figure.

Ipecacuanha is quiet and slightly easier, as low as $3 being quoted by some holders; others ask up to $3.40 for prime root.

Menthol is slightly easier, and $2.35 will now buy.

Opium is dull and neglected. Quotations are nominal at $3.10. There is an undertone of weakness, and further declines are not unlikely.

Quinine has advanced consequent on the result of the recent bark-sales, and manufacturers now quote 28c. to 30c. for domestic. Small amounts in second hands can be had at 27c. to 27½c. Foreign is firm at 28c.

Senega is easier, consequent on light demand; 24c. will buy.

Senna-leaves are in good demand, and prices rule strong. Tinnevelly are firm at 8c. to 14c., according to grade, and Alexandrian sifted are quoted at 18c. to 22c., with 12c. to 15c. asked for natural leaves.

Star-anise is in good supply, and easier; 32c. will buy.

Strychnine has been reduced 10c. per oz. by domestic manufacturers.

Cablegrams.

Hamburg, March 9, 11.53 A.M.:—This market is quiet. Quinine is firm at 45m. per kilo; refined camphor is now quoted 345m. per 100 kilos. HGH oil of peppermint is dull and unchanged.

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Bergen, March 9, 11.45 A.M.:—The cod-fishing has been very poor since my last telegram, and the catch of the week brings up the total to 6,121,000, against 7,258,000 at the same date last year. This, however, will yield 6,177 barrels of unrefined oil, against 4,267 barrels from last year's larger catch. The market is still easy at 60*s.* per barrel, f.o.b.

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New York, March 9, 3.10 P.M.:—The condition of this market is good, and business is active in several directions. Quinine sulphate is still going strong, at 30c. per oz. as a minimum for domestic makes Opium is quiet, at $3 per lb. Cinchonidine is in good demand, and very firm, at 18c. per oz. Jalap is easier, at 10c. per lb. There is a scarcity in nux vomica, and 2½c. per lb. is wanted for ordinary seed. Mexican sarsaparilla is now 11c. per lb., and is advancing.

London Markets.

Acid, Citric.—Quiet and easier at from 1*s.* 3¼*d.* to 1*s.* 4*d.* per lb. for English according to holder.

Acid, Salicylic.—The agent for a leading brand reports a very good demand. Within the last few days buyers have covered their prospective demands by new contracts. Whether the eagerness to cover for forward has been induced by special confidence in the article for the near future is difficult to say. No advice of any intention to raise existing values has been given. The prices for cwt. lots are powder (m.p. 156 6° C.) 1*s.* 10*d.*, crystals 2*s.*, and physiologically pure 4*s.* per lb.

Acid, Tartaric.—Firmer and in good demand at 1*s.* 0½*d.* per lb. for foreign. Some makers have withdrawn the 1*s.* 0¼*d.* quotation.

Alkali.—Caustic soda is not so firm as it has been although in fair demand, and makers have been more anxious lately to sell for forward delivery. High strengths have been scarce for early shipment, but the demand has fallen away. For export 60 per cent. is quoted at 6*l.*; 70 per cent., 6*l.* 15*s.* to 7*l.*; 74 per cent., 7*l.* 10*s.*; 76 per cent.; 7*l.* 12*s.* 6*d.*; and 77 per cent, 7*l.* 15*s.* per ton, less 1 per cent., f.o.b. Liverpool; 1-cwt. drums, 25*s.* per ton extra

Aloes.—The Uganda aloes referred to in our last issue will come up for sale next week. It is stated to be cheap at 100*s.* per cwt. The hepatic character of the aloes is questioned, but the fact appears to be that the importation of aloes from Uganda has been a complete surprise to specialists in this line.

An expert in the matter informs us that "there are many species of aloe indigenous to the African continent, but it is just possible that this sample of aloes may have been prepared from plants introduced into Uganda, as it is well known that during

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the past few years rapid progress has been made in the cultivation of economic plants and the development of the natural resources of this district. *Aloe abyssinica* has been collected in the neighbourhood of Uganda, and may, perhaps, prove to be the source of the new product, but until specimens of the plant have been examined a satisfactory conclusion cannot be arrived at. The species mentioned above is said to afford Jafferabad aloes, and is a native of Abyssinia and Central Africa, &c."

Socotrine aloes in cases has changed hands at 70*s.* per cwt. this week; kegs are slow of sale. Cape remains very scarce.

Argol.—In auction on Tuesday 30 bags of common powdery grey sold at 41*s.*, and weak red at 37*s.* per cwt.

Arrowroot firm; fair St. Vincent partly sold at 4½*d.* to 4⅝*d.* per lb, and old import at 3½*d.* to 3¾*d.* per lb.

Arsenic rules firm and unchanged, at 17*l.* 10*s.* to 18*l.* per ton net, ex ship, for best white English powder.

Asafetida.—An arrival of 50 cases from the Persian Gulf, said to be of fine quality and much wanted, is now landing.

Balsam Copaiba slightly easier at 1*s.* 6*d.* per lb. c.i.f. terms. Maranham is 1*s.* 8*d.*

Balsam, Peru.—A fair business is doing at 8*s.* 4½*d.* per lb.

Benzoin.—There has been a good inquiry this week for Palembang, for the best of which 50*s.* per cwt. is asked.

Borax remains firm and in good demand at the combination prices. Makers are reported to be well sold, and will only book forward for three months.

Buchu.—Good round leaves, which are scarce, have been sold at 6½*d.* per lb. this week.

Calamus-root scarce, at 5*d.* per lb., c.i.f.

Camphor.—The crude-market was a turn easier at the close of last week, when some 400 or 500 piculs Chinese changed hands at 126*s.* per cwt. c.i.f. for March-May steamer. Up to the middle of this week there had been no transactions of importance, and to-day there are sellers of Chinese for arrival at 127*s.* 6*d.*, and Japanese at 132*s.* 6*d.* per cwt.

Cantharides.—Russian is offered at 1*s.* 6½*d.* to 1*s.* 7*d.* per lb., c.i.f. terms.

Cardamoms.—The exports from Ceylon from January 1 to February 14 were:—

		1899	1898	1897	1896
Lbs.	...	64,647	40,146	41,853	30,024

The shipments for the week ending Febrnary 14 were 17.892 lbs., destined as follows:—London, 6,926; Hamburg, 5,424; Copenhagen, 2,016; Bombay, 1,998; and New York, 1,518 lbs. Business on this market proceeds steadily, at unchanged rates.

Cascara Sagrada.—Business has been done this week at 35*s.* to 37*s.* per cwt. on the spot, according to the age of the bark.

Cassia Fistula of good quality is scarce, and 18*s.* to 19*s.* per cwt. is wanted for it, with buyers at 17*s.*

Chiretta is quoted at 4½*d.* per lb.

Cinchona.—Buying of second-hand and other parcels has been going on steadily this week at the advance noted in our last (about 10 per cent.). Little now remains in second hands, and brokers are strong holders. The shipments from Ceylon from January 1 to February 14 were:—

		1899	1898	1897	1896
Lbs.	...	98,675	92,477	20,826	70,677

For the week ending February 14, 82,511 lbs. were exported —to London 73,373 lbs., and to New York 9,138 lbs.

Cocaine remains very firm owing to scarcity of crude material. Most makers hold out for 11*s.* 9*d.* per oz., but in secondhand there are sellers as low as 10*s.* 6*d.*

Cocoa-butter.—In auction on Tuesday 85 tons of Cadbury's sold at 1*s.* 1*d.* to 1*s.* 1⅞*d.* (one lot 1*s.* 2*d.*), the average being 1*s.* 1$\frac{7}{16}$*d.*, against 1*s.* 2$\frac{5}{16}$*d.*, or about 1*d.* lower. On the same day, at Amsterdam, 80 tons Van Houten's sold at 71½c. to 74½c. per half-kilo., 5 tons Helm at 73¼c. to 73½c., and 4 tons Hamer at the same figures.

Colocynth.—Fair Turkey apple was sold for export last week at 10½*d.* per lb., an unchanged figure.

Copper Sulphate has been quiet during the past ten days, and the demand has not been up to expectations. Current quotations are from 23*l.* 10*s.* to 25*l.* 10*s.* per ton on the spot, the latter figure for Anchor brand. Macclesfield is 25*l.* for prompt or March delivery, although some second-hand lots are offered in Liverpool at 20*s.* to 25*s.* under this figure.

Cream of Tartar has a firmer tendency at 80*s.* per cwt. for 95 per cent. powder, and 84*s.* for 99 to 100 per cent.

Culver's-root is reported scarce at 6*d.* per lb., c.i.f.

Damiana-leaves are offered in one quarter at 4¼*d.* per lb. c.i.f.; another holder asks 7*d.*

Fenugreek-seeds.—Slightly easier, business having been done at 7*s.* 6*d.* per cwt. for 5-ton lots.

Galls.—Quiet, with small sales of Persian blue at unchanged rates. The c.i.f. quotation is slightly easier at under 60*s.* per cwt.

Golden-seal.—Owing to increasing scarcity quotations have again been advanced on the New York market, and the equivalent of 2*s.* 11*d.* to 3*s.* 1*d.* is quoted there.

Guarana is in small supply, and the tendency is higher, at 1*s.* 6*d.* per lb. on the spot.

Guinea-grains.—Good bright quality is still obtainable on the spot at 60*s.* per cwt.

Gum Arabic.—A fair business has been done in insoluble Persian sorts at 21*s.* per cwt. for small pale. For parcels of unworked offers have been refused, importers holding for more money.

Gum Tragacanth.—A small business has been done, chiefly in the lower and medinm qualities. A large turnover is expected next week, when the shipments per *Baluchistan* are placed on the market.

Henbane.—For biennial tops 14*s.* per lb. is now wanted.

Honey.—The following are current quotations:—Californian, from 35*s.* to 40*s.* per cwt.; for fine white Italian ditto, 39*s.*; and Jamaica, 22*s.* to 24*s.* per cwt. A fair business is reported.

Insect-flowers.—A Trieste correspondent writes on Febrnary 28, that the market is steady for fine grades, while open flowers are lower. The stock in Trieste at the end of February, 1899, was 226,000 kilos., as compared with 213,900 kilos. at the end of Jannary, 1899; the receipts in February were 40,900 kilos., and the deliveries 28,800 kilos. The following are the current quotations, f.o.b. Trieste:—Open flowers, 53*s.* to 55*s.*; half-open, 61*s.* to 74*s.*; closed, 89*s.* to 93*s.*; and wild-flowers, 102*s.* to 110*s.* per cwt. Another agent qnotes: wild Montenegro, closed, at 120*s.*; cultivated, closed, 110*s.*; half-closed, 80*s.*; and Persian, 53*s.* per cwt., c.i.f.

Ipecacuanha.—Quiet and unchanged, at 8*s.* for Cartagena in ten-bale lots, and 8*s.* 2*d.* for smaller quantities. In Rio some bnsiness has been done this week at 11*s.* 6*d.*, 11*s.* 9*d.*, and 12*s.* per lb., according to qnality and quantity.

Menthol.—On the spot a small business is reported at last week's price—7*s.* 3*d.* per lb.

Oil, Anise.—Star is flat at last quotations. Russian is 5*s.* 9*d.* to 6*s.* per lb., c.i.f.

Oil, Bergamot.—Messina reports a slightly easier market at 8*s.* 2*d.* per lb., c.i.f., for 35-per-cent., and 8*s.* for 33-per-cent.

Oil, Castor, is slightly firmer than last week, and a fair business is reported. Finest medicinal Italian is 35*s.* per cwt., c. and f., or 38*s.* ex wharf; French of first pressing, 26*s* 6*d.*; Belgian, first pressing, 26*s.*; July-December delivery, 25*l.* ex wharf; second, ditto, 24*s.* 6*d.* spot; London, pressed, 26*s.*; and Hull, ditto, 25*s.* to 26*s.* in barrels, and 2⅞*d.* to 3*d.* per lb. in cases, ex wharf London.

Oil, Cinnamon.—For the week ending February 14 2,600 oz. only of both bark and leaf oil was shipped from Ceylon, and all to Hamburg.

Oil, Cod-liver.—Weaker, owing to eager sellers and continued reports of the good fishing. Although the nominal figure is 65*s.* per barrel, c.i.f., yet there are sellers of first

fishing oil at 60*s.* to 62*s.* 6*d.*, c.i.f. For Lofoten oil more is wanted. The business being done is trifling, as the prevailing feeling amongst buyers is that higher rates are most unlikely. We refer in an editorial note to the actual position.

An Aalesund report, dated March 4, states that the Lofoten catch up to March 3 was 2,400,000, against 2,600,000 in 1898, and 5,100,000 in 1897. The yield of the crude Lofoten oil so far is 3,185 hectolitres, against 1,990 at the same time last year. We may explain that the figures given in our cablegram are the catch from the beginning of the season, and, therefore, include the southern fishing. The exports up to the middle of February were—from Berger, 637 hectolitres; Aalesund, 498; Christiansund, 29; and Tromsoe (January 31), 167—a total of 1,531 hectolitres of steam-refined oil. A barrel holds a hectolitre.

Oil, Eucalyptus.—Firm at 2*s.* 2*d.* to 2*s.* 3*d.* per lb. for oil containing 50 per cent. eucalyptol. We hear from Melbourne that the cost of production in Australia cannot be greatly reduced when an attempt is made to obtain the oil from uniform species. The leaves in one district are speedily exhausted, and it becomes more and more difficult to procure them, all the nearest places being cleared. Going back further and further into the bush means increase of cost.

Oil, Lemon, is easier in some quarters, well-known brands of citral-guaranteed oil being obtainable at 3*s.* 9*d.* per lb., c.i.f. The Messina market is very dull.

Oil, Olive.—Cream 57*l.* 10*s.*, superfine 53*l.* 10*s.*, and sublime 49*l.* 10*s.* per 1,015 kilos., c.i.f. New-crop Lucca oil, just arrived, is quoted at 4*s.* 6*d.* to 5*s* per gallon.

Oil, Peppermint.—Japanese quiet, with small sales of dementholised (Kobayashi brand) at 3*s.* 6*d* per lb; for arrival 2*s.* 9½*d*, c.i.f., is asked; 40-per-cent. oil is unchanged at 4*s.* 10½*d.*

Oil, Sassafras.—Reduced to 1*s* 5*d.* to 1*s.* 6*d.* per lb, c.i.f., for natural, and 1*s.* 3*d.* to 1*s* 4*d.* for artificial.

Oil, Sweet-orange.—Messina advices report an active market at 5*s* 11*d.* per lb. net, c.i.f., for finest Calabria

Opium.—Quiet, with a few sales of Persian at 10*s.* 6*d.* per lb. for fair medium; the finer qualities are held at from 10*s.* 9*d.* to 11*s* 6*d.* Smyrna advices dated March 3 report sales amounting to about 60 cases at the parity of 8*s.* 3*d* per lb. for druggists' seconds

Constantinople, March 3.—No sales have taken place this week, and the article remains quiet but firm at the equivalent of 8*s.* per lb, f.o.b., for druggists' grades.

Smyrna, February 24.—The sales for the week amount to 47 cases, as follows: 35 cases at the equivalent of 8*s.* 2*d.* to to 8*s.* 5*d.* per lb. for Karahissar talequale, and 12 cases current talequale at 8*s.* 1*d.* to 8*s.* 3*d.* per lb., which is again a slight decline on those of last week. The market closed with sellers at the above prices. The arrivals of opium since June 10 amount to 1,250 cases, against 3,266 last year; and in Constantinople, up to February 18, 1,105 cases, against 1,802 in 1898. The stock of opium in Smyrna is estimated at about 1,900 cases, including what is held on speculation; and, in Constantinople, 382 cases. The prospects for the next crop remain very favourable, and if all goes well a yield of 10,000 cases is anticipated.

Orris.—Florentine, picked, is quoted 34*s.* 6*d.*, and small white at 31*s.* to 32*s.* 6*d.* per cwt., c.i.f.

Otto of Rose.—Two shillings per oz dearer. The chief reason for this is referred to on p. 418. There is little doing here at present, and stocks are believed to be ample to meet the demand.

Potash, Chlorate.—Dull and almost lifeless, the spot quotation being 3¾*d.* per lb. for crystals, and 4*d.* for powder; but 5 ton lots, f.o.b. Liverpool, are quoted 3½*d.*, and powder 3⅝*d*, with a proportionately higher figure for less quantity.

Potash, Cyanide, has a firmer tendency owing to short supplies; 98-per-cent. to 100-per-cent. cyanide is quoted at 1*s.* 0½*d.* per lb. for prompt, and 1*s.* for forward delivery.

Quinine.—The speculative demand decreased after we went to press last week, and the article remained quiet until yesterday, when a good deal of business was done in Mincing Lane in the two German brands which are the subject of the speculation. The prices paid were ¼*d.* per oz. higher for spot, viz. 1*s.* 3½*d.*, and to-day 1*s* 3⅝*d* to 1*s.* 3¾*d*, also 1*s.* 3⅞*d.* to 1*s.* 4⅛*d.* for May and June deliveries. Buying for August and December at similar rates is also mentioned. Some parcels four to ten years old have changed hands, but several holders still stand out for more money, and 1*s.* 4*d.* has been refused. Amsterdam quinine has sold at 1*s.* 3*d.* The statistical position is further discussed on page 417. Manufacturers generally decline to do business with other than buyers for consumption, and only book small lots.

Rhubarb.—All kinds have been in fair demand this week, at unchanged to firm prices. The business done includes rough Canton pickings at 9½*d.* to 10*d.*

Rose-leaves.—New Dutch leaves are offered at 2*s.* 9*d.* per lb., and for French a little more money is asked.

Saffron.—A fair business has been done this week at from 41*s.* 6*d.* to 43*s.* per lb for Valencia, but nothing more is to be had at the lower figure.

Senega.—The New York market is easier at the equivalent of 1*s.* to 1*s.* 1½*d.* per lb., c.i.f., for Minnesota, according to holder.

Senna.—Business has been done in second hands at from 2½*d.* per lb. up to 4*d.* for Tinnevelly, according to quality. An outside steamer, the *Wistow Hall*, has arrived with 43 bales. Five cases of Alexandrian picked leaf, just arrived, have sold at 6½*d.* to 7*d.* There is no business in the lower grades, which make up the bulk of the stock here.

Shellac.—The moderate supply (763 cases) offered in auction, chiefly button, met with a poor demand, about 70 cases finding buyers at 82*s.* 6*d.* per cwt. for good firsts button; red seconds, 65*s.* to 68*s.*; dark ditto, 54*s.* to 55*s.*; ordinary thirds, 51*s.* to 52*s.*; fourths, 39*s.*; and low dark, 14*s.* to 18*s.* per cwt.; second orange, low livery and broken, 55*s.* Privately the market is quiet, the value of standard TN being 65*s.* to 66*s.* per cwt. Speculative demand is absent for the moment.

Soda, Bicarbonate, continues in steady demand at unchanged prices, viz., 7*l.* 5*s.* per ton in kegs ex warehouse. Gaskell and Crescent brands are quoted at 6*l.* 15*s.* per ton for kegs, less 5 per cent. f.o.b. Liverpool, 5*l.* 15*s.* for Japan, and 5*l.* 5*s.* for Australasia; second quality, for mineral water, making 5*l.* 2*s.* 6*d*, less 2½ per cent. in kegs.

Soda, Nitrate, is well held at the advance quoted last week.

Spermaceti.—American is firm at 1*s.* 2½*d.* per lb. on the spot.

Spices.—A dull tone has prevailed throughout the week. There has been more business in *Pimento*, at hardening prices, but other articles have met with little demand. At the auctions on Wednesday Cochin *Ginger* was rather easier, good bold bright new crop washed rough selling at 26*s.* per cwt., and smaller dull at 23*s.* Japan sold at 18*s* 6*d.* to 19*s.* for ordinary mixed limed rough. All the Jamaica offered was bought in, the bidding being very feeble. Zanzibar *Cloves* sold at 3½*d* per lb. for fair, being lower. The market for future delivery has fluctuated, closing at about 3 9/16*d.* per. lb. Zanzibar *Chillies* sold at 35*s.* per cwt. for a small lot of fair quality. *Pimento* was partly disposed of at 4 11/16*d.* per lb. for fair shipping, 4⅝*d.* being refused for ordinary. *Pepper* quiet, good Singapore white sold at 8¾*d.* per lb., and Penang at 7⅞*d.* per lb. Singapore black is quoted at 5 5/16*d* per lb.; business has been done to arrive at 5⅜*d.* for May-July shipment.

Sulphonal.—In second hands there are still small offers at 15*s.* per lb. net., which is not much cheaper than the official quotation, 16*s.* 3*d.* subject.

Sulphur.—Firmly held at 84*s.* per ton, c.i.f., for best thirds, and 86*s* 6*d.* for seconds; foreign flowers are quoted at 6*l.*, and roll at 5*l.* 10*s* per ton, c.i.f.

Wahoo Bark.—The markets, both here and in New York, remain bare of stock, and from 8½*d.* to 8¾*d.* per lb. c.i.f. is asked. The only holder on the spot requires 8½*d.* per lb.

Wax, Bees'.—In fair demand at firm prices.

Auction of Varnish-gums.

An exceptionally large supply was offered to-day—viz., 7,544 packages. Of these 3,614 were kauri, the sale for which was generally slow, only 1,944 packages being disposed of. Fine brown and bush full up, but half and three-

quarter scraped sold at 5*s.* decline. The offerings of copal (3 134 in number) were not acceptable, only 491 being sold. There was a brisk demand for animi, only 11 out of the 196 offered remaining unsold at full-up prices. Olibanum was in full supply and of fair quality, but only 80 packages were bought publicly, although business is being done privately. The prices obtained in auction were as follows:—

Animi.—Good bold pale Zanzibar, 13*l.* to 13*l.* 5*s.* per cwt.; ambery ditto, 10*l.* 7*s.* 6*d.* to 12*l.*; fair to bold weak, 8*l.* 2*s.* 6*d.* to 8*l.* 12*s.* 6*d.*; good bold chips, 7*l.*; darker, 6*l.* 12*s.* 6*d.* to 6*l.* 17*s.* 6*d.*; pale chips, 5*l.* 5*s.* to 6*l.*; fair pickings, 40*s.* to 52*s.* 6*d.*; woody pickings, 12*s.*; dust, 20*s.* to 27*s.* One barrel of Demerara sold at 4*l.* 10*s.*, subject.

Copal.—Good pale hard scraped Singapore 58*s.* to 62*s.* 6*d.* per cwt.; good bold ambery, selected, 50*s.* to 52*s.*; slightly reddish and dark, 40*s.* to 43*s.*; good pale nubbles, 32*s.* to 35*s.*; knobs, 29*s.* 6*d.* to 33*s.*; darker, 27*s.* 6*d.* to 28*s.*; siftings, 10*s.* to 22*s.*, according to quality; sweepings, 7*s.* to 9*s.* 6*d.*; brown, blocky, and dusty, 7*s.* to 8*s.* 6*d.*

Damar.—600 cases were offered, but only 50 cases of fair pale Singapore sold at from 19*s.* to 20*s.* per cwt. Batavian did not sell.

Grass Tree Gum.—Seven bags of blocky stuff sold at 5*s.* 6*d.* per cwt. Accroides was bought in, no offer being made.

Kauri.—One case of fine Dial sold at 16*l.* per cwt. Fine pale hard scraped, 11*l.* to 11*l.* 17*s.* 6*d.*; fair scraped, 6*l.* 10*s.* to 6*l.* 12*s.* 6*d.*; three-quarters scraped, 5*l.* to 5*l.* 12*s.* 6*d.*; good scraped, 83*s.* to 92*s.*; good chopped, 91*s.*; middling to fair, 79*s.* to 80*s.*; half-scraped, 70*s.*; coated nubbles, 61*s.*; mixed chips, 51*s.* to 58*s.*; good pickings, 43*s.* to 48*s.*; inferior drossy, 20*s.* to 29*s.*; siftings, 35*s.*; chippy dust, 35*s.* to 43*s.*; pale dust, 40*s.*; brown ditto, 16*s.* to 23*s.* 6*d.* Bush, fine pale, 7*l.* 10*s.* to 8*l.*; reddish, 5*l.* 5*s.* to 5*l.* 12*s.* 6*d.*; fine chips, 87*s.*; pale chips, 78*s.*; darker, 75*s.* to 76*s.*; brown, 30*s.* to 45*s.*; pickings, 32*s.* East Coast gum, 87*s.* 6*d.* to 90*s.*; pale chips, 69*s.*; brown ditto, 67*s.*

New Guinea Gum.—Four bags were put up and sold at 10*s.* and 23*s.* per cwt.

Olibanum.—Only garblings sold; good, 27*s.*; part blocky, 20*s.*; woody, 16*s.* Privately fine picked tear is held at from 60*s.* to 61*s.* per cwt., and for export a few cases have changed hands at this figure.

Sandarac.—75 bags were catalogued but none sold; 35*s.* was offered for good pale tear from Mogador, but was not accepted.

Seedlac.—60 bags of Kurrachee were offered, but there was no bid, and they were withdrawn.

Commercial Notes.

[In cases where English equivalents of foreign measures, &c., are not given, they will be found in The Chemists' and Druggists' Diary, 1899, page 278.]

TABLETS FOR CHINA.

Mr. John Fowler, the American Consul at Chefoo, in a report dated December 15, 1898, says that he went into a large importer's—a British house—where he was shown "tabloids" made in U.S.A. in paper boxes melting with the heat and damp, and the comment was: "Surely Americans ought to know that tabloids being sent to Asia should be put into glass bottles, as the English send theirs."

OUR OLDEST COLONY.

The recently issued annual review of the affairs of Newfoundland by the local Colonial Secretary is not pleasant reading, taken as a whole, but the tone of its concluding paragraph is decidedly optimistic:—"At the time of writing things have brightened considerably. Trade has improved, the prices paid for our fishery products are higher, foreign markets are stronger, provisions are reasonable, and greater interest continues to develop in mining and agriculture."

PEPPER-CULTIVATION IN ASSAM.

The Assam Government has recently issued a note on the cultivation of black pepper in that province, with the idea of inducing the people to cultivate it extensively as a commercial product. At the present time it is only produced in sufficient quantities to supply local requirements. The pepper-vine in Assam, it appears, is generally reared on betel-nut trees, and the average yield of a single vine is said to be about three seers (40 seers = $2\frac{1}{2}$ lbs.) of cured pepper. An acre of betel-nut plantation holds about 500 trees.

Coming Events.

Monday, March 13.

Pharmaceutical Society of Ireland, 67 Lower Mount Street, Dublin, at 8.15 p.m. Discussion on "The Advisability of Poison Regulations."

Tuesday, March 14.

Royal Photographic Society, 12 Hanover Square, W., at 8 p.m. "Theoretical Considerations in Choosing Colours for Three-colour Printing," by Captain N. Wetbury.

Burnley and District Chemists' and Druggists' Association. Annual dinner at the Bull Hotel at 6 p.m. Tickets (3*s.* each) can be obtained from Mr. J. Brown (Hon. Secretary), 7 Manchester Road, Burnley.

Bradford and District Chemists' Association. Social evening.

Pharmaceutical Society of Great Britain, 17 Bloomsbury Square, W.C. Evening meeting at 8 p.m. Professor J. R. Green will lecture on "Adverse Conditions and their Remedies in the Life of Plants."

Wednesday, March 15.

Royal Microscopical Society, 20 Hanover Square, W., at 8 p.m. "The Projection Microscope," by Mr. L. Wright.

Western Chemists' Association, Westbourne Restauraut, Craven Road, W., at 9 p.m. Discussion on "The Practical Conformity with the Poison Regulations," opened by Mr. C. B. Allen.

Society of Arts, John Street, Adelphi, W.C. Sir Marcus Samuel on "Liquid Fuel."

Pharmaceutical Society of Great Britain (North British Branch), at 36 York Place, Edinburgh. Evening meeting at 8.30 p.m. Papers to be read:—"Pharmacists and Urine-analysis," by Mr. A. Currie; "The Temperature at which Sodium Bicarbonate Decomposes," by Mr. W. B. Cowie; "Insoluble Ichthyol Pessaries," "Lin. Terebinth., B.P.," "A Bismuth-mixture," by Mr. J. R. Hill.

Thursday, March 16.

Chemists' Assistants' Association, 73 Newman Street, W., at 9 p.m. "The Commercial Study of Drugs," by Mr. J. H. Heap.

Liverpool Pharmaceutical Students' Society. Musical and social evening.

Chemical Society, Burlington House, Piccadilly, W., at 8 p.m. Papers will be read on "The Influence of Substitution on Specific Rotation in the Bornylamine Series," by Dr. M. O. Forster, and on "The Rotatory Power of Optically Active Methoxy- and Ethoxy-propionic Acids Prepared from Active Lactic Acid," by Messrs. T. Purdie and J. C. Irvine.

North Stafford and District Chemists' Association. Annual meeting and dinner in the Copeland Arms Hotel, Stoke-on-Trent, at 4 p.m.

Friday, March 17.

Irish Pharmacists' Assistants' Association, 67 Lower Mount Street, Dublin. Meeting. (Dr. Auchinleck's lecture is postponed.)

Aberdeen Junior Chemists' Association, at 9.30. "Retrospect of Pharmacy," by Mr. R. Leslie.

Bradford and District Chemists' Association.—Annual dinner is postponed till April 18.

Nux Vomica Prices.—Messrs. C. & A. Böhringer, of Colombo wrote on February 15, to the *Ceylon Observer*, that they had been buying nux vomica at 3r. per cwt. (1r. = 1*s.* $4\frac{3}{32}$*d.*) for the past twelve months; this in answer to a quotation of 6.00r. to 5.50r. in the newspaper market report.

The Aloes Industry of Cape Colony does not reach the proportions which might be expected. This is, no doubt, accounted for by the half-hearted way in which the industry is regarded by colonists. We understand that there is not a single white man engaged in the actual production of the valuable drug except the resident missionary at Bethelsdorp. It is only when the stuff is ready for exportation that the white trader steps in, purchases it, and brings it to the coast—Mossel Bay. The exports for 1898 amounted to 393,016 lbs., valued at 2,315*l.*, as against 458,895 lbs. in 1897, valued at 2,326*l.*

THE POISONS REGULATIONS.

The back of this leaf contains the regulations for the keeping, dispensing, and selling of poisons, which registered chemists and druggists in Great Britain must conform to. They are printed in conspicuous type, so that the leaf may be removed and framed or otherwise exposed in a conspicuous part of the pharmacy.

Additional copies of this leaf will be forwarded to those who send us a stamped addressed envelope.

THE NEW POISONS REGULATIONS.

UNDER Section 1 of the Pharmacy Act, 1868, it is unlawful for any person to sell or keep open shop for retailing, dispensing, or compounding poisons, or to assume or use the title "chemist and druggist," or chemist or druggist, or pharmacist, or dispensing chemist or druggist, in any part of Great Britain, unless such person shall be a pharmaceutical chemist, or a chemist and druggist within the meaning of that Act, and be registered under that Act, and conform to such regulations as to the keeping, dispensing, and selling of such poisons as may from time to time be prescribed by the Pharmaceutical Society of Great Britain with the consent of the Privy Council. The subjoined regulations were adopted by the Pharmaceutical Society on January 11, 1899, and consented to by the Privy Council on January 31, 1899. They are binding upon registered chemists and druggists who sell or keep open shop for the retail, &c., of poisons (1) on their own behalf, (2) as managers for the executors of deceased chemists and druggists, or (3) as managers for limited companies. Any person or company assuming the title "chemist and druggist," or its equivalent, must also conform.

The Poisons

referred to above are articles scheduled according to the Pharmacy Act, viz.:—

Part I.

Aconite and its preparations.
Arsenic and its preparations.
Cantharides.
Corrosive sublimate.
Cyanide of potassium and all metallic cyanides.
Emetic tartar.
Ergot of rye and its preparations.
Prussic acid.
Savin and its oil.
Strychnine and all poisonous vegetable alkaloids and their salts.

Poisons in this part may not be sold unless the purchaser is known to or introduced by some person known to the seller; also entry must be made in the poison-book of—

(1) *Date of the sale;*
(2) *Name and address of the purchaser;*
(3) *Name and quantity of the article;*
(4) *Purpose for which it is stated to be required, attested by signature of the purchaser, and of the person, if any, introducing.*

The poison must be labelled with (1) name of the article; (2) the word "Poison"; (3) name and address of the seller [*i.e.*, the person on whose behalf the sale is made].

Part II.

Ammoniated mercury (commonly known as white precipitate of mercury).
Belladonna and its preparations.
Cantharides, tincture and all vesicating liquid preparations of.
Chloral hydrate and its preparations.
Chloroform.
Corrosive sublimate, preparations of.
Essential oil of almonds, unless deprived of its prussic acid.
Morphine, preparations of.
Nux vomica and its preparations.
Opium and all preparations of opium or of poppies.
Oxalic acid.
Red oxide of mercury (commonly known as red precipitate of mercury).
Vermin-killers—*i.e.*, "every compound containing any poison within the meaning of the Pharmacy Act, 1868, when prepared or sold for the destruction of vermin."

Poisons in this part must be labelled with—

(1) *Name of article;*
(2) *The word "Poison";*
(3) *Name and address of seller.*

The Regulations

which are actually in force are the resolutions approved as before-mentioned; consequently they read strangely, but are none the less imperative. Two regulations refer to the keeping, and one to the dispensing and selling of poisons.

Keeping.

Regulation 1.—That in the keeping of poisons, each bottle, vessel, box, or package containing a poison be labelled with the name of the article, and also with some distinctive mark indicating that it contains poison.

Regulation 2.—Also that in the keeping of poisons, each poison be kept on *one or other* of the following systems, viz.:—

(*a*) In a bottle or vessel tied over, capped, locked, or otherwise secured in a manner different from that in which bottles or vessels containing ordinary articles are secured in the same warehouse, shop, or dispensary; or

(*b*) In a bottle or vessel rendered distinguishable by touch from the bottles or vessels in which ordinary articles are kept in the same warehouse, shop, or dispensary; or

(*c*) In a bottle, vessel, box, or package kept in a room or cupboard set apart for dangerous articles.

Editorial Notes.—Each poison is here referred to, so that all systems are likely to be required or used. One will keep oxalic acid in a different way (say, *a*) from hydrocyanic acid (say, *c*), although the latter would also be tied over as *a* requires. Each chemist and druggist may decide *within the above lines* what is best for his own business.

Clause a.—It is a good rule to keep things not frequently wanted in a cupboard, so that those only which are most often required will have to be dealt with in this clause. Note that the regulation refers to securing the stopper or lid of the vessel, &c., or the vessel itself. This applies to liquids and powders. Ointments and extracts generally kept in pots may be kept according to *b* or *c*.

Clause b.—One or two pieces of sandpaper placed on plain bottles or pots make them distinguishable to touch, and meet the regulation.

Dispensing and Selling.

Regulation 3. That in the dispensing and selling of poisons, all

Liniments, Embrocations, and Lotions containing Poison

be sent out in bottles rendered distinguishable by touch from ordinary medicine-bottles, and that there also be affixed to each such bottle (in addition to the name of the article, and to any particular instructions for its use) a label giving notice that the contents of the bottle are not to be taken internally.

Editorial Note.—Poison-bottles are not required for all poisons sold—only for liniments, embrocations, and lotions.

Further suggestions will be found in the issues of The Chemist and Druggist for March, 1899.

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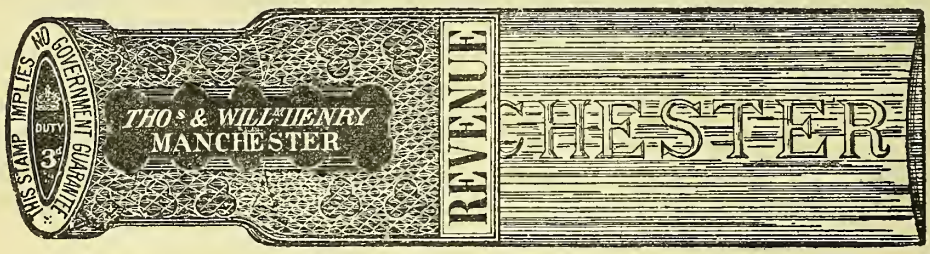
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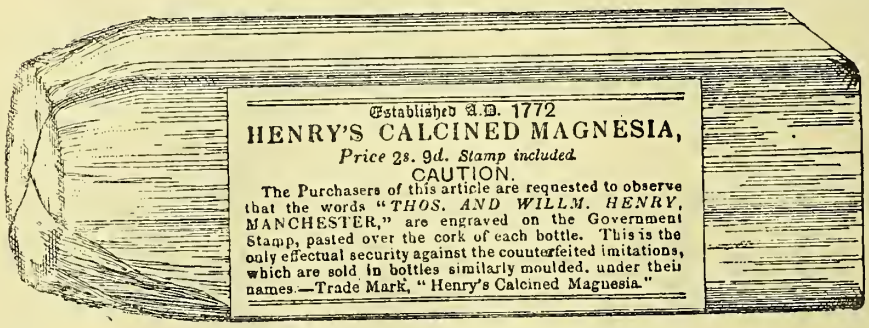
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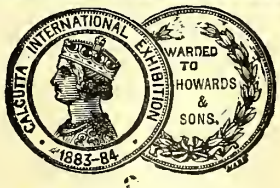
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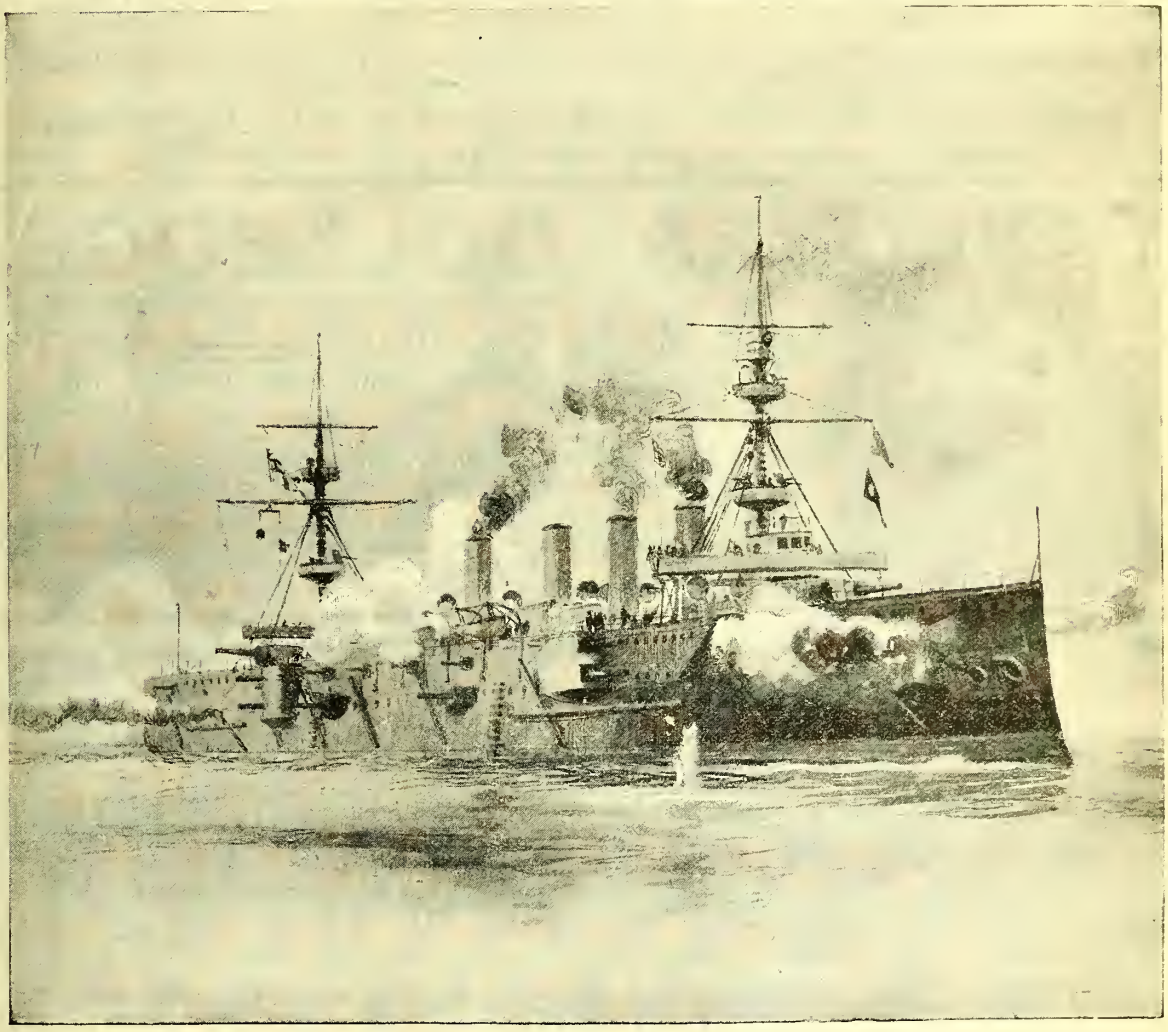
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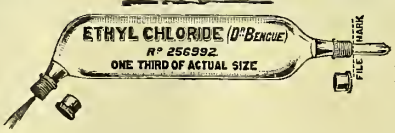
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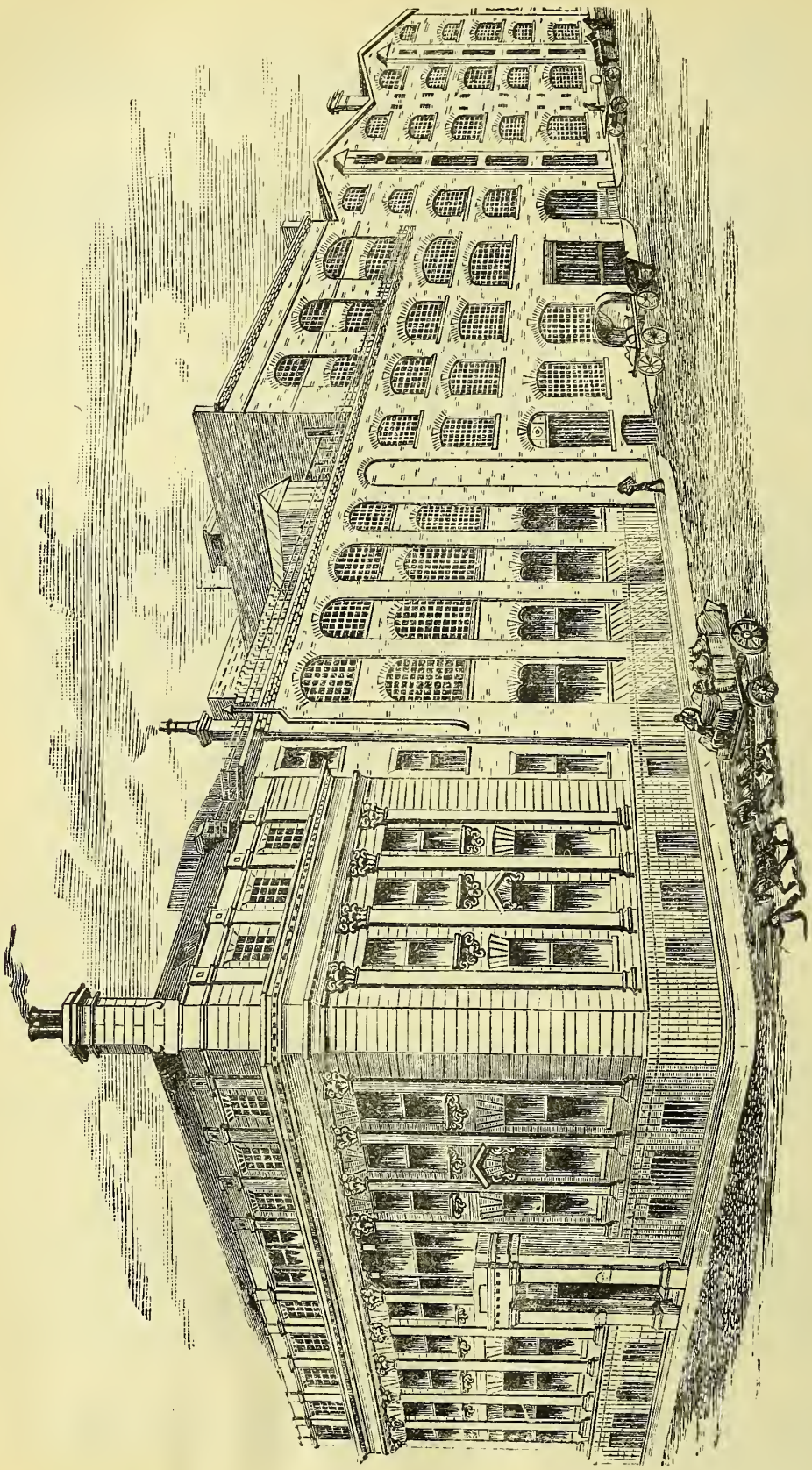
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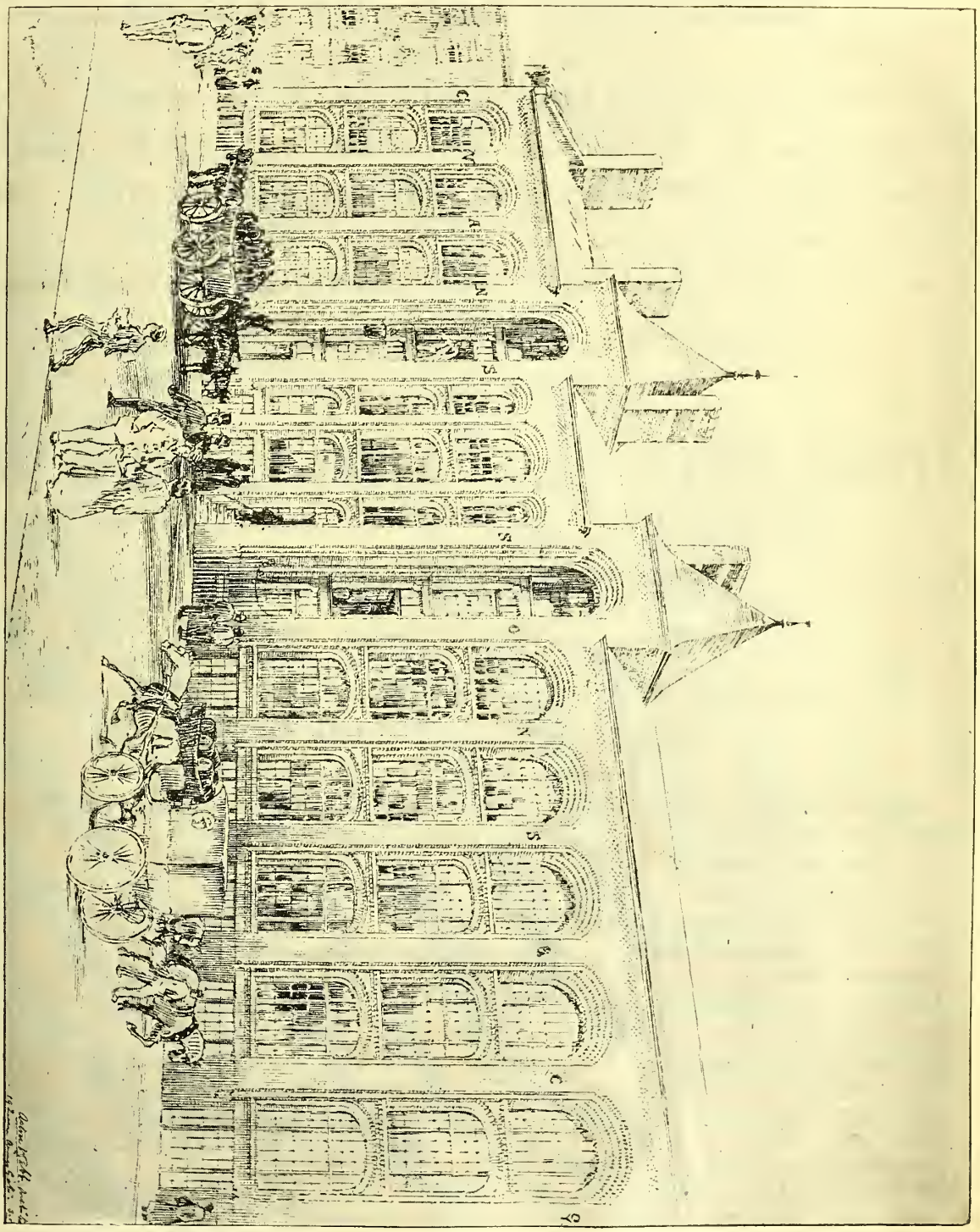
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THE IMPROVED CACHETS.

"Messrs. Christy & Co. deserve to be congratulated on the manner in which they have brought home to English Chemists the possibilities of the Cachet for promoting elegance in Pharmacy"
—THE CHEMIST & DRUGGIST.



"The use of your Koseals saves much time, annoyance, and temper."
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ANY SIZE, PLAIN WHITE OR ANY COLOUR.

With Names of Drugs or of complaints printed or embossed, in boxes of 1,000, 500, or 250,

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HYDROUS ... ... at **10d.** per lb.
ANHYDROUS ... ... „ **1/1** „

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PROCURED AT LOWEST PRICES.

WITCH HAZEL, Distilled Extract, at 1/- lb., 7/- gall.
1/- size at 9/- doz.

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25 LIME STREET, LONDON, E.C.

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THE SAFEST AND BEST PREPARATION OF OPIUM.

PRODUCES NEITHER HEADACHE, SICKNESS, NOR CONSTIPATION.

PREPARED EXCLUSIVELY FROM OPIUM.

Although many new hypnotics and analgesics have been recently introduced, NEPENTHE still holds its position as THE hypnotic and sedative *par excellence*. "Nepenthe" is registered under the Trade Marks Act, and is our sole property. *No other preparation* should be substituted when Nepenthe is ordered in a prescription.

Sent out in bottles bearing a label in white letters upon a green ground. We prepare also *Double Strength Nepenthe*, and Glycerole of Nepenthe (eight times the single strength) for hypodermic injection.

PRICES AND TERMS ON APPLICATION.

FERRIS & CO., WHOLESALE AND EXPORT DRUGGISTS. **BRISTOL.**



"LIQ. SANTAL FLAV. c̄ BUCHU ET CUBEBÂ"

(HEWLETT'S).

THE ORIGINAL PREPARATION.

Report of "THE PRACTITIONER":—

"Experience has shown this preparation to possess *the same efficacy as Santal Oil itself.* It mixes perfectly with water, and has a taste by no means disagreeable, in which particular it contrasts very favourably with the ordinary mixture it is intended to replace."

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Price 10s. 6d. per lb. packed, for dispensing only, in 10, 22, 40, and 90-oz. Bottles.

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C. J. HEWLETT & SON, Wholesale and Export Druggists,

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TASTELESS QUININE,

"EUQUININE" (the Ethyl-carbonate of Quinine). **THE QUININE OF THE FUTURE.** No taste, no cinchonism, or in very mild form only. **Physiological action identical with that of Quinine.** Produced sensation among Doctors at **Edinburgh Exhibition.** Write for Free Samples and the numerous Treatises.

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(Valerianic Acid and Menthol). Analeptic, Anti-hysteric. Stomachic. **Preventive against Sea-Sickness.**

EUNATROL PILLS

(From chemically pure Oleate of Sodium). Stimulating Bile-flow; for Gall-stone, Bilious and Liver Complaints.

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SANTAL OIL CAPSULES,
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Flexible or Hard.

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CITRATE OF MAGNESIA

Our manufacture of this article has met with all-round commendation from our customers, and every year our sale increases largely.

Our "A" quality is almost identical with the British Pharmacopœia formula, but owing to the desire of the public for a sweeter preparation we make four kinds, A. B. C. & D.; each having the proportion of Sugar, varied according to the price.

1 cwt. and upwards supplied in 28-lb. Tins. TINS & CASES FREE.

March 1st, 1899.

"A" QUALITY. Blue Label.

Per lb. 10*d.*; 1 cwt. 90/-; in 4-28 lb. Tins. Tins and Cases free.

In round bottles, corked—	¼ lb.	½ lb.	1 lb.
Per dozen	4/6	7/8	12/6
Per gross	50/-	88/-	144/-

"B" QUALITY. Pink Label.

Per lb. 9*d.*; 1 cwt. 74/-; in 4-28 lb. Tins. Tins and Cases free.

In bottles as above—	¼ lb.	½ lb.	1 lb.
Per dozen	4/2	7/-	11/-
Per gross	46/-	78/-	128/-

"C" QUALITY. Yellow Label.

Per lb. 8*d.*; 1 cwt. 68/-; in 4-28 lb. Tins. Tins and Cases free.

In bottles as above—	¼ lb.	½ lb.	1 lb.
Per dozen	4/-	6/6	10/-
Per gross	44/-	74/-	116/

"D" QUALITY. White Label.

Per lb. 7*d.*; 1 cwt. 60/-; in 4-28 lb. Tins. Tins and Cases free.

In bottles as above—	¼ lb.	½ lb.	1 lb.
Per dozen	3 6	5/6	9/-
Per gross	38/-	62/-	102/-
In Enamelled Tins—		½ lb.	1 lb.
Per dozen	—	5/3	8/6
Per gross	—	58/-	99/-

Raspberry flavour, tinted	per lb. 1/-	per cwt. 70/-		
Lime Fruit flavour	„ 1/-	„ 70/-		
Lemon flavour	„ 1/-	„ 70/-		
6 oz. White Flats, patent stoppered, or blue lettered, patent stoppered, or wood top corks	A 48/-	B 38/-	C 36/-	D 34/-
8 oz. White Flats, patent stoppered, or blue lettered, patent stoppered, or wood top corks	52/-	44/-	42/-	40/-

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FRUIT SALINE OR HEALTH SALT.

SALINE GRAINS OR GRANULAR FRUIT SALT.

SULPHUR SALINE, or "Brimstone and Treacle" up-to-date.

Lemonade Powder and Crystals.

SAMPLES AND QUOTATIONS FOR ANY OF THE ABOVE WILL BE FORWARDED ON APPLICATION.

Our Standard.



EVANS, GADD & CO.

Wholesale & Export Druggists,

MANUFACTURERS OF

Pharmaceutical Preparations,

BRISTOL & EXETER.

Telegraphic Addresses { "GADD BRISTOL." "GADD EXETER." Telephones { BRISTOL, No. 1046. EXETER, No. 7.

DAVIES, GIBBINS & CO.

(Upwards of 20 years with John Richardson & Co., Leicester, Limited),

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Bridge Street, DERBY.

MANUFACTURERS OF

PETROLEUM EMULSION

WITH HYPOPHOSPHITES OF LIME AND SODA.

UNQUESTIONABLY THE FINEST PREPARATION ON THE MARKET.

(In bottles to retail at 1/6, 2/6 & 3/6, 9/-, 16/- & 26/- per doz. net. Or in Bulk.)

SOLUBLE PEARL-COATED PILLS

FLEXIBLE GELATINE CAPSULES

(The Finest Obtainable).

COMPRESSED TABLETS

(Of Pure Drugs Only).

CONCENTRATED INFUSIONS AND WATERS

FLUID EXTRACTS

(Of the United States and British Pharmacopœias).

LEVIGATED OINTMENTS

(Prepared by Steam Power.)

SPIRIT OF NITROUS ETHER

(Prepared by distillation, and guaranteed to answer the official tests).

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PEDER DEVOLD. Estab: 1872. PURE LOFOTEN COD LIVER OIL. TRADE MARK. P.D. Manufacturer. Aalesund-Norway.

Finest Norwegian (Lofoten) Non-freezing.

1899 Season.

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Trade Mark T&K Registered.

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Works—MITCHAM and RAINHAM.

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ACIDS — HYPOPHOSPHOROUS, PHOSPHORIC, s.g. 1,750 and 1,500, and VALERIANIC.

AMMONIA—Nitrate, Oxalate, and Valerianate pure dry Crystals.

ANTIMONY—Crocus, Oxide 98 per cent., Sulphide, Golden Sulphuret, and all Antimonial preparations.

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ESSENCES OF LEMON, BERGAMOT, & ORANGE, guaranteed absolutely genuine; unadulterated.

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ESTAB. 1825.

Beg to inform the Trade that, in answer to the many **inquiries from Chemists,** they have decided to put up a **Smaller Bottle** of their **"Croup Lotion," price 1/6,** containing half the quantity of their 2/9 size, and to place the same upon the P.A.T.A. Schedule. The proprietors are using every endeavour to have this size ready as soon as possible, and Chemists should send in their orders to their wholesale houses **at once,** as all such orders will be executed in the order they are received.

Applications for new Show Cards and Pamphlets, and for Special Terms to Chemists, should be sent to

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CHEMICAL DISINFECTANT.

5, 10, and 15 % CARBOLIC Antiseptic and Deodorising Powder.

Bags and Casks free.

AGENTS WANTED to supply Corporations and large users.

SOLUBLE **SANITARY FLUID**

In Casks, and in 2, 1, and ½ gallon Tins.

CHESHIRE BIRD LIME.

In 1d., 2d., 3d., and 6d. Tins. Also in 1, 2, 3, and 7 lb. Tins & Casks, for large consumers and the trade.

ALL FLY PAPER MATERIALS.

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TRANSPARENT CEMENT for Broken Articles.

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A NEW WHITE INORGANIC CEMENT

TRADE KLINX MARK.

FOR STONE, PORCELAIN, POTTERY, & ALL VITREOUS SUBSTANCES.

Requires no preparation, easy and clean in application, and can be made to resist water.

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Finest Non-Freezing Norwegian

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In Green Flint Panelled Flats.



FREE ON RAILS, LEEDS.

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Samples and special Net Prices for quantity, Illustrated Packed Goods List, and General Price Current post free on application.

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PURE MAGNESIA.

Carbonate, Calcined, and Fluid.

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Composed of the Purest Drugs.
Leading Varieties at Lowest Prices.
SUPERIOR TO PEARL COATING.
CATARRH SNEEZE SNUFF in Tubes, on Cards, or Boxes, 8/- per gross.
Speciality:
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Send Business Card for Samples and Price List.



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Price 1/6 per bottle (9 oz.). To be obtained, with 30 per cent. discount, from the principal Wholesale Drug and Patent Medicine Houses, or from the

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DRUG TRADE IN RHODESIA.

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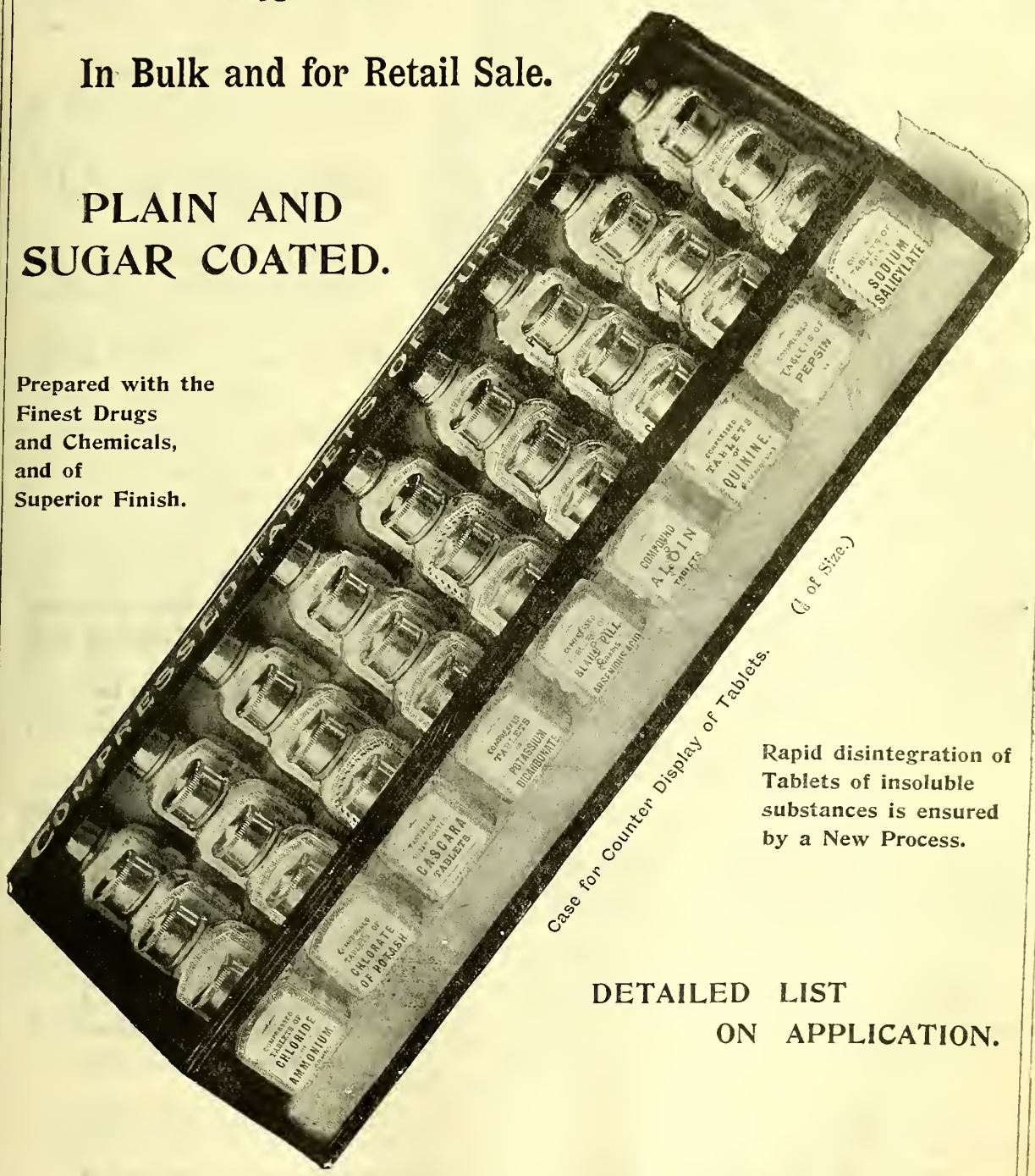
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Prepared with the Finest Drugs and Chemicals, and of Superior Finish.



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Rapid disintegration of Tablets of insoluble substances is ensured by a New Process.

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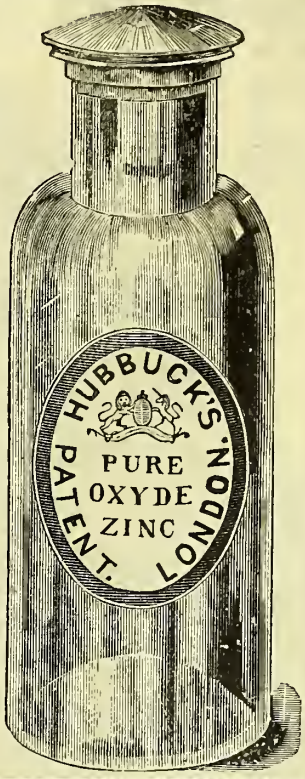
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HUBBUCK'S PURE OXIDE

Is made by Sublimation, and is Warranted to contain upwards of

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of Pure Oxide; in fact, the impurities are not traceable.

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Manufacturers of

White Lead, White Zinc, Paints, Oils, Colours, Varnishes, &c.

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The Manufacturers supply their Pure Oxide Wholesale only, in quantities of not less than 2 cwt.

MICROVOID TOILET SOAP.

DISINFECTING, ANTISEPTIC, GERMICIDAL. Boxes of 3 Tablets retail at 1/6

Sole Proprietors—

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A distinguished English Bacteriologist says of Microvoid Soap that he finds it fully up to the claims made for it.

Send for Trade Prices and Copies of Testimonials.

The S. C. CO., LTD., DERBY, are also Sole Manufacturers of **NORMALENE**, the Best Food for Plants (flowers, ferns, &c.). Canisters, 1/3 retail.

A GOOD LINE FOR CHEMISTS.

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NO LISTS. SPECIAL QUOTATIONS ONLY.

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WHOLESALE AND EXPORT DRUGGISTS,

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Beg to inform their friends and the Trade generally that, being Sole Proprietors of the Business of

BARRON, SQUIRE & CO., BUSH LANE,

and also the various Formulæ of the Special Preparations of

JAMES BASS & SONS, HATTON GARDEN,

they are prepared to execute orders for the same, and pledge themselves to supply them in all their integrity.

SPECIMENS OF THESE PREPARATIONS have REMAINED in the MUSEUM of KEW GARDENS during 28 YEARS WITHOUT DETERIORATION.

"SWEET" PEARL COATED PILLS.

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PURE CHLOROFORM

Sp. Gr. 1·490 or 1·495, British Pharmacopœia, 1898.

IS EXTENSIVELY USED IN THE PRINCIPAL HOSPITALS AND INFIRMARIES.

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(AS USED BY THE LATE DR. THOMAS KEITH AND MANY EMINENT SURGEONS).

ANTISEPTIC DRESSINGS & APPLIANCES

Prepared from the Special Formulæ of LORD LISTER, P.R.S., and guaranteed to contain full percentage of antiseptic substance.

Since their introduction in 1871 these Dressings have continued to merit the confidence and approval of the Profession.

PROMPT ATTENTION GIVEN TO ALL INDENTS. PRICE LIST ON APPLICATION.

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WE DO YOUR

Business a distinct amount of good if you stock our "D. C. L." Malt Extract, as it is sold at Popular Prices, and we do the

ADVERTISING.

We shall be delighted to recommend Customers to you. And as no one is allowed to sell under our marked prices, or face value,

WE GUARANTEE FAIR RETURNS.

We trust you will either stock our article direct from us or secure supplies from your usual Drug or Sundry House.

SUPPORT US.

Our "D. C. L." Malt Extract is put up in 8-oz., 16-oz., and 52-oz. Bottles (fluid capacity), to sell at 1/-, 1/9, and 4/6 each respectively. Our prices to Retailers are 9/6, 16/6, and 43/6 per dozen net. Carriage paid on 3-dozen lots. "D. C. L." Malt Extract and Cod Liver Oil is put up in same sizes of Bottles and at same prices as our plain "D. C. L." Malt Extract. No other firm will give you the same value. Our quality is unrivalled in appearance, flavour, and starch-converting power. We can prove this from Analysts' reports and extracts from Medical Press, but if you prefer to rely on your own research we shall be happy to send you a free sample. Write to us,

THE DISTILLERS COY., LIMITED, EDINBURGH.

We believe many Chemists would find it profitable to sell our celebrated "D. C. L." Yeast, which has been extensively advertised for years, and is renowned all over the United Kingdom both for Home use and Bakery purposes. In some districts it is difficult for us to get Agents, and a Chemist would be just the right party to supply Families. If you are favourably disposed to the idea, write to

THE DISTILLERS Coy., LIMITED, EDINBURGH.

Showcards, Pamphlets, and Booklets, *re* "D. C. L." Malt Extract and "D. C. L." Yeast, on application.

DUNCAN, FLOCKHART & CO.

EDINBURGH and LONDON.

GELATINE CAPSULES (1,500 Varieties)

CASCARA CAPSULES. EASTON SYRUP CAPSULES.

GREGORY POWDER CAPSULES.

BLAUD PILL CAPSULES.

We guarantee our One, Two, and Three Pill Capsules to be equal respectively in Ferrous Carbonate to one, two, and three freshly-prepared Blaud Pills. They have also this distinct advantage over Pills, that they neither oxidise nor harden.

DUNCAN, FLOCKHART & CO., MANUFACTURING CHEMISTS, EDINBURGH

Telegrams—"Dunhart Edinburgh." "Dunhart London." London Address—38 & 39 SNOW HILL, E.C. Telephone—874 Edinburgh. 232 Holborn, London.

Mitchell's
CASTOR OIL

The *Lancet* of 8th June, 1895, says:—"MITCHELL'S PROCESS of extracting and refining Castor Oil is obviously an improvement which the profession cannot fail to approve and welcome, since in removing the great objection to the Oil—namely, that of repulsive taste, as well as in securing its full therapeutic effect—it is calculated to assist and to facilitate the administration of a very valuable therapeutic agent."



The *British Medical Journal* of 18th May, 1895, says:—"Castor seeds have, unless very old, a pleasant nutty flavour, and the disagreeable taste of ordinary Castor Oil has been produced by the conjoint action of moisture air, heat, and fermentative changes during the expression of the Oil from the Seeds and its subsequent treatment. An oil can be obtained as pleasant to the taste as the fresh seed, if the expression is not assisted by artificial heat, and the Oil at once freed from impurities by filtration without heat, in vessels from which air is excluded, and bottled *in vacuo*. . . . By MITCHELL'S COLD PROCESS . . . . the Oil thus obtained has a simple bland taste, resembling olive oil, the nauseous taste associated with the ordinary Cold Drawn Castor Oil being entirely absent."

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Put up in 2, 4, & 8 oz. bottles, to be retailed at 6d., 9d., & 1s.

Also supplied in
WINCHESTERS at low prices, which will be forwarded on application.

FOR PARTICULARS AS TO DISCOUNTS, &c., APPLY

THE UNITED BRITISH CASTOR OIL CO., LTD.
OSSORY ROAD, LONDON, S.E.

Free.

We will send post free on application Six attractive Showcards, the display of which is sure to result in increased sales of Guy's Tonic at your Establishment.

Now that the 2/9 size bottle contains twice as much as formerly, there is an ever-increasing demand for it, therefore stock it. The new 13½d. size, too, has gained Public Favour. It sells readily, and bears a satisfactory profit to the Retailer.

Address:—

Guy's Tonic Company.
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THIERRY'S
MARVELLOUS
BALSAM & OINTMENT



TRADE MARK.

ARE THE
Best known and most extensively used Remedies on the Continent,
AND
ARE NOW BEING LARGELY ADVERTISED IN THE UNITED KINGDOM.

PRICES—		PER DOZ
Thierry's Marvellous Balsam	... 1/1½	... 10/6
Thierry's Marvellous Ointment	... 2/9	... 24/-

A single dozen will be sent at above prices Carriage Paid.

5% EXTRA DISCOUNT ON ORDERS OF A CROSS & UPWARDS.

SHOWCARDS, &c., SENT ON APPLICATION.

Address—A. THIERRY, 89 Farringdon St., LONDON, E.C.

POST'S 'C.B.Q.'

The Most Effective Cure yet Discovered for

GOUT & RHEUMATISM

EXTRACT FROM CERTIFICATE OF ANALYSIS.

"Analytical Laboratory, 11 and 12 Great Tower Street, London, E.C., Nov. 9, 1897.

"After the application of the most rigorous and delicate tests I was unable to detect the presence of Colchicum, Mercury, or any other injurious and violent drugs that are frequently employed, and the preparation has been skilfully and judiciously compounded from the most valuable therapeutic agents known to modern pharmaceutical science.

"I consider it to be perfectly harmless in use, effective in action, and an admirable specific for the cure of Rheumatic Gout, Sciatica, Lumbago, Neuralgia, &c.

"GRANVILLE H. SHARPE, F.C.S., Analyst,
"Late Principal of the Liverpool College of Chemistry, Member of the Society of Chemical Industry."

UNQUESTIONABLE TESTIMONIALS.

WALTER SEVERN, Esq., President of the Dudley Gallery Art Society, writes:—

"171 Piccadilly, W., May, 1898.

"For two years I suffered martyrdom from rheumatism in all my joints, all the usual methods of treatment failed, and the malady was thought to be chronic. I happened to hear of your cure, and determined to try the tablets, which I did with most satisfactory results, as I was speedily enabled to resume my painting, to keep free from pain, especially at night, and to move about without help. It would be very ungrateful to withhold this letter, as I have good reason to believe your remedy to be all you represent, and I hope my cure may induce other sufferers to avail themselves of it."

W. YARDLEY, Esq., the celebrated Cambridge University Cricketer, writes:—

"Beefsteak Club, 9 Green Street, Leicester Square, W.C, March 29, 1898.

"I see in your advertisement in to-day's *Daily Telegraph* that you publish a letter of mine to you, dated February 9, 1896, in which I testify to the fact that your 'C.B.Q.,' after three months' steady trial, had greatly benefited me at the time. I hope it may give you as much satisfaction as it gives me to know that from that day to this I have never had a symptom of the Gout, to which I was a martyr **FOR OVER 25 YEARS** before I had the good fortune to take your 'C.B.Q.'

"As you are well aware, I have no interest whatever in your medicine beyond the good it has done to me personally, and the hope that many other sufferers may benefit as I have done by its use."

"41 Eastcheap, London, E.C., August, 1898.

"DEAR SIR,—I think it only right to certify that your 'C.B.Q.' unquestionably effects a permanent cure of Sciatica. After having used it in 1895, I have been **ENTIRELY FREE** from that dreadful malady, and, apart from its curative properties, I maintain that it improves the general physical condition to a marvellous extent. It is necessary, however, to take it three times regularly every day during the treatment in order to derive the full benefit. I have no hesitation in recommending your medicine to all those who are suffering from Gout, Rheumatism, and kindred diseases.

"You are absolutely free to make use of this communication as you see fit. Yours faithfully,

"W. A. NIGH."

Retail Price, in tasteless tablets, 2/9 and 4/6 per bottle.

Particulars and Testimonials Free on Application. Special Terms for Wholesale Orders.

POST'S LINIMENTS.

No. 1 gives speedy relief in cases of Inflammatory Rheumatism or Gout where the joints are swollen, inflamed, and painful to the touch. Post's Liniment, No. 2, will be found wonderfully efficacious for Lame Back, Stiffness in the Joints, Contraction of the Cords, &c. Retail price 4*s.* 6*d.* each per bottle.

POST'S LIVER PILLS.

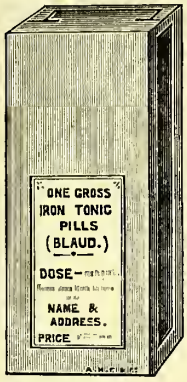
Purely Vegetable, for Torpid Liver, Constipation, &c. Retail Price 1*s.* 1½*d.* per box.

Correspondence invited from Chemists and Export Shippers.

A. M. POST, LTD., 96 & 98 LEADENHALL ST., LONDON, E.C.

PACKED PROPRIETARY PILLS

Name and Address on 1 gross lots, or 4 × 3 dozen assorted.



BLAUD PILLS. (Formula 436.)

White square bottle, containing **1** gross Iron Tonic Pills (Blaud), in coloured carton, labelled for retail use, with Chemist's name and address, also price as required.
Pink or White.
1 gross in gold-lacquered tin, well-lithographed retail label in colours, no name.



BLAUD PILLS.

(Formula 436.)

1 gross in metal-capped bottle, labelled for retail use.

PINK PILLS.

(Formula 436.)

1 gross in metal-capped bottle, labelled for retail use.

NEURALGIA PILLS. (Formula 177.)

18 in metal-capped tube, artistic retail label in colours.

PHOSPHORUS AND DAMIANA PILLS.

(Formula 729.)

18 in tube, artistic retail label in colours.

ANTICORPULENCY PILLS.

(Formula 437.)

18 in tube, artistic retail label in colours.



LITTLE LIVER PILLS. (Formula 698.)

40 in metal-capped tube, neatly printed wrapper, labelled for retail use.

LITTLE ANTIBIL or LITTLE COUGH PILLS

(Formulæ 737 and 776.)

40 in metal-capped tube, neatly printed wrapper, labelled for retail use.



ANTIBILIOUS PILLS. (Formula A.)

2 doz. in turned wood box, labelled with dose and wrapped.

GOUT AND RHEUMATIC PILLS.

(Formula 787.)

2 doz. in turned wood box, coated or uncoated, labelled with dose and wrapped.

FEMALE PILLS. (Formula 617.)

2 doz. in turned wood box, labelled with dose and wrapped.

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Of above, FREE.

WITH PRICES AS REQUIRED.

Samples and Prices of all the above on application.

COX'S TASTELESS PILLS.

"There is no doubt that a pill-mass, coated as in these pills, does not tend to harden with keeping, and remains as effective as if taken in recently-filled gelatin capsules."—*Edinburgh Medical Journal*, August, 1898.

Send for detailed list of Pills in bulk—10 gross tins.

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PURE CHEMICALS

PHARMACEUTICAL PREPARATIONS

Best

MACKEY MACKEY & CO.
LIMITED.

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Specialities.

Mistura Bismuthi Co.
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Ol. Eucalypti, P.B.
Eucalyptol, Terpinol, and Carbolic Disinfectant.
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Pills.

Soluble, Transparent and Pearl Coated.

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TOILET SPECIALITIES

MADE FOR THE TRADE.

COURVOISIER'S "Spécialité"

VIOLETTE DE PARME SOAP

Packed in Boxes of 1 dozen Tablets:—

1 Gross, 29/- Case, 1/- | **3 Gross, 28/-** Case Free. | **15 Gross, 27/6** Case Free. } Carriage Paid in England, Scotland, and Ireland.

100 Gross, 27/- Cases Free. } Carriage Paid and Soaps Branded to order.

This offer is made on condition that Tablets are not cut under **3½d.**

31 & 35 DANBURY STREET, ISLINGTON, LONDON, N.

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Largest Tooth Soap Compressers in the world.

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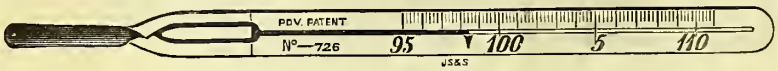
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CLINICAL THERMOMETERS.



Provisional PATENT No. 726.

These THERMOMETERS, by the improvement in their MANUFACTURE, are EXTREMELY RAPID, and can be reset with a SLIGHT SHAKE.

No. 62	Ordinary ...	(about 60 seconds)	each **3 2**
„ 63	Rapid	(„ 30 „)	„ **3/9**
„ 64	Lens Front ...	(„ 60 „)	„ **4/9**
„ 65	„ „ Rapid	(„ 30 „)	„ **6/6**

English made by English Workmen.



J.S.&S.

METAL DRESSING COMBS.

Straight Back.

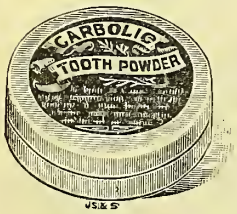
$7\frac{1}{2} \times 1\frac{1}{8}$, per doz. **3/-**

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Fancy Back.

$7\frac{1}{2} \times 1\frac{1}{4}$, per doz. **4/6**

TOOTH POWDER TINS.





J.S.&S.

$2\frac{1}{2}$ in. by $\frac{7}{8}$ in.

Liquid Capacity about 2 ozs.

Dull Gold, printed Assorted Colours, ANTISEPTIC, CARBOLIC, CAMPHORATED CHALK, and ROSE, as Illustrations.

Per dozen ... ... **10d.** Per gross **9/-**

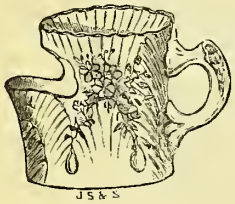


OLD FASHIONED (Flat) FEEDING BOTTLE.

Best White Glass Graduated, 18 tablespoons, Screw Glass Stopper, Polished Black Teat, each in Box with Bottle Brush.

Per Dozen **5 6**

3 dozen at **4/9** dozen.



J.S.&S.

SHAVING MUGS

No. 10.

Fancy Decoration, Gilt Edge.

Per dozen, **4/9**.



J.S.&S.

SHAMPOO POWDER.

7 Packets in Box. Per Dozen Boxes, **8/9**.

1 *Dozen and upwards with Customer's Name on envelopes and labels.*



CORN AND WART SOLVENT.

1 dozen on Card, with Brush. Per dozen, **2/4**.

12 dozen, with Customer's Name on label, **24/6**.



J.S.&S.

BLAUD'S PILLS.

1 gross in Coloured Printed Tins.

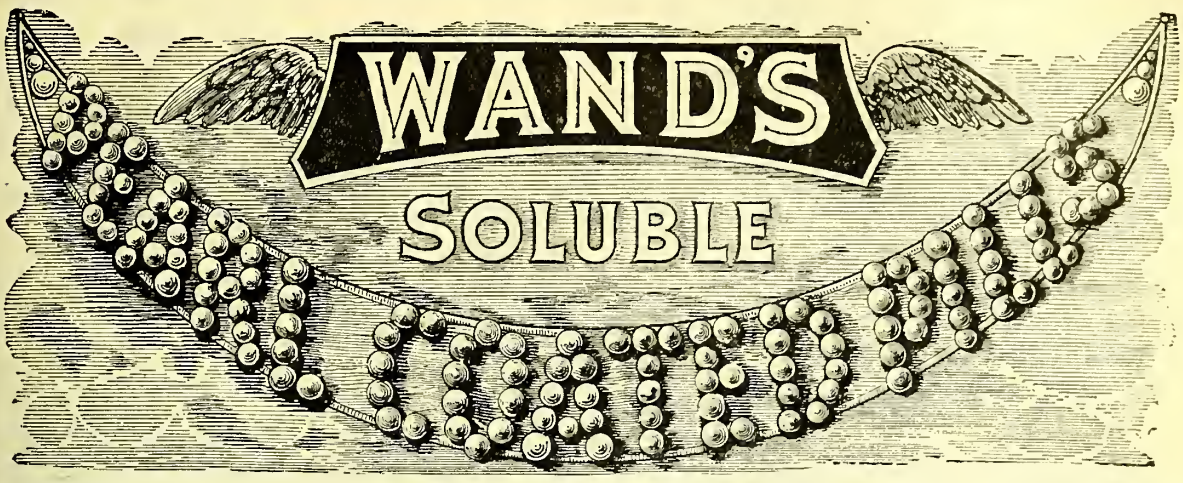
Per dozen Tins **3/6**

Per gross Tins **36/-**

Special quotation for Quantities.

ALL ABOVE PRICES SUBJECT TO OUR USUAL 10 PER CENT. AND 5 PER CENT. DISCOUNT.

WAREHOUSE AND SHOWROOM: 2 WINSLEY STREET, LONDON, W.



HIGHEST QUALITY. LOWEST PRICE. BEST FINISH. FULL STRENGTH.
PEARL OR SWEET-COATED, any Colour (VARNISHED, SILVERED, OR BLACK POLISHED).

We supply a 50-gross Selection (Minimum 10 gross) at 50-gross Rates.

ALL NET CASH WITH ORDER.

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43.	„ Chamomile	5d.	4½d.
997.	„ Dandelion	4½d.	4d.
476.	„ Gout and Rheumatic	7d.	6d.
192.	„ Podoph. Co.	9d.	8½d.
A.	„ Digestive	4½d.	4d.
217.	„ Rhei et Ricini	3½d.	3d.
2.	„ Aloes et Asafœt...	3½d.	3d.
3.	„ „ Ferri	3½d.	3½.
1150.	„ „ „ c. Pulegii	3½d.	3d.
6.	„ Asafœt. Co.	3½d.	3d.
9.	„ Coloc. et Hyoscy.	10d.	9d.
8.	„ Coloc. Co.	9d.	8d.
109.	Pil. Ferri (Blaud)	2½d.	2½d.
13.	„ Hydrarg.	4d.	3½d.
127.	„ Hyd. c. Rhei	4½d.	4d.
14.	„ Hyd. Subchlor. Co.	5d.	4½d.
15.	„ Ipecac. c. Scillâ	4d.	3½d.
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Little Pill Series.

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400.	Little Antibilious Pills	4d.	3½.

WE SAVE YOU FROM 50% TO 100%.



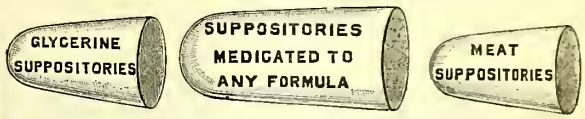
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A GOOD SELLING LINE.

PINK OR WHITE 2½d. per gross in 10-gross lots.
NEAT AND TELLING LABEL IN BLUE INK.



1 Gross in Metal Capped Bottle, 3/6 per Doz.
½-Gross Bottles, 3/3 per Doz. 1-Gross Bottles, 3/- per Doz.



☛ **WE ARE SPECIAL** for GLYCERINE SUPPOSITORIES.
Child's 9d. Boxes 3/6 per doz. Adult's 1/- Boxes, 5/- per doz.
Child's in Bulk, 2/6 per gross. Adult's in Bulk, 4/- per gross.
VARIOUS MEDICATED SUPPOSITORIES (see 22 forms in NEW LIST) 7d per doz., 6/- per gross
URETHRAL BOUGIES, 1/4 per doz.
CHEYNE'S BOUGIES, 1 9 per doz.
CACHETS and COMPRESSED TABLETS.

PESSARIES (Vaginal).

No. 26.—QUININE (Soluble), French Shape, guaranteed to contain 3 grains of Soluble Quinine in each. One doz. in box, 7/- per doz boxes.

VARIOUS MEDICATED PESSARIES (see 27 forms in NEW LIST). Made of Cacao Butter or Gelatine, and supplied in boxes containing 1 doz. of a kind at 1/4 a box.



All Carriage Paid in Great Britain. Tins and Packages Free. WAND, PILL FACTORY, LEICESTER.

Acid Phosphoric, pure syrupy, 1·750 } and all other strengths
" " Conc., B.P., 1·500 }
" Glacial.
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Our Pure Acid is guaranteed made direct from Phosphorus, and is the Purest and Best on the Market.

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OUR PURE ACID ANSWERS ALL THE REQUIREMENTS OF THE NEW B.P. Do your present stocks?

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Palatable. *Inseparable.*

Petroleum Emulsion

with

Hypophosphites.

Price 1/3 per lb.

In printed Cartons: 6 oz., 8/-; 8 oz., 10/-; 16 oz., 15/- doz.

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Each and every box of ***JOHNSON & JOHNSON'S*** Belladonna Plaster, whether in 1-yard or 5-yard rolls, the regular porous back or breast Plasters, will contain a distinct guarantee over ***JOHNSON & JOHNSON'S*** Signature that the Plaster in the box specified conforms to the requirements of the B.P. 1898.

In addition to this, in each and every box will be placed a slip showing the actual analysis of the Plaster or Plasters the box contains.

This assures the safety of Chemists purchasing ***JOHNSON & JOHNSON'S*** Belladonna Plasters.

NO CHANGE IN PRICES.

CAN BE OBTAINED FROM ALL WHOLESALERS, OR DIRECT FROM

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104 Golden Lane, E.C.

Look at the opposite page.



BELLADONNA PLASTERS AT A GLANCE.



	Imperial.	Metric.
Liquid Extract of Belladonna ...	4 fl. oz. ...	100 c.c.
Resin Plaster	5 oz. ...	125 grammes

Evaporate the liquid extract of belladonna on a water bath until it is reduced in weight to one ounce (or 25 grammes); add the resin plaster previously melted. Mix.

This plaster contains 0·5 per cent. of the alkaloids of BELLADONNA ROOT.

Johnson's Belladonna Plaster conforms strictly to the B.P. 1898 in strength and kind of drug used.

BELLADONNA PLASTER.—JOHNSON & JOHNSON'S FORMULA.

Belladonna gathered in proper time and season extracted with alcoholic menstruum so as to retain all soluble constituents of the drug by macero-percolation, reduced in vacuo to a semi-solid extract. Incorporated by mixing cold with plaster mass.

CONSTITUENTS OF BELLADONNA . . .



Atropine.
Hyoscyamine.
Belladonnine.
Atropamine.
Apoatropine.
Starch.
Malic Acid.
Chryastropic Acid.
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Succinic Acid.
Acetic Acid.
Prendatorin.
Phyteumscolla.
Gum, Wax, Mucilage, Asparagin, Albumin.
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Chlorophyll.
Potassium Salts.
Magnesium Malate and Phosphate.
Calcium Malate and Oxalate.
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Ammonium Salts.

JOHNSON'S BELLADONNA PLASTER CONTAINS ALL THE SOLUBLE CONSTITUENTS OF BELLADONNA IN ABSORBABLE FORM.

The essential feature of Johnson & Johnson's Belladonna Plaster is the use of an absorption promoting base that frees the pores from fatty matter, thus insuring reliable and increased action of the drug.

28 Victoria Street, Westminster.

Messrs. JOHN TIMPSON & Co.

DEAR SIRS,—



I have made a careful examination of Johnson & Johnson's Belladonna Plasters.

The result of three careful extractions of the plaster mass titrated with Mayer's reagent, and using Dragendorff's factor of 00414 for Belladonna alkaloids is 0·489 %.

I hereby certify that 0·489 of Alkaloids were present in Johnson & Johnson's Belladonna Plasters.

I have further identified the alkaloid as Atropine, and proved the absence of Hyoscyamine and Scopolia Extract.

Yours faithfully,

SAMUEL RIDEAL, D.Sc.Lond., F.I.C.



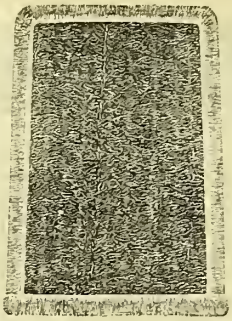
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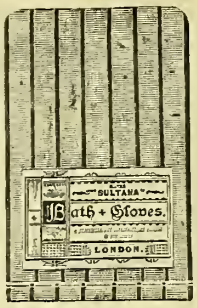
Also each and every box contains a statement showing the analysis of the plasters in that identical box.



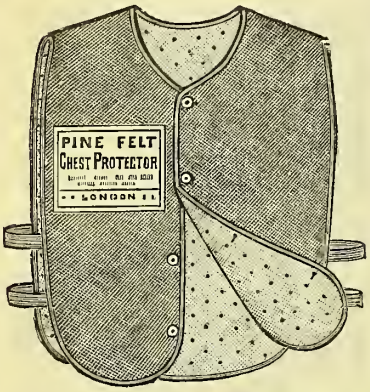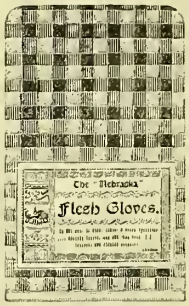
























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New North Road,
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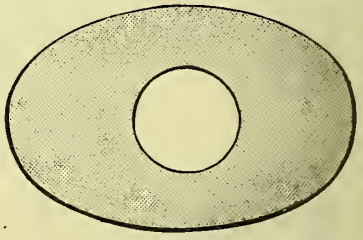


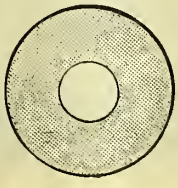




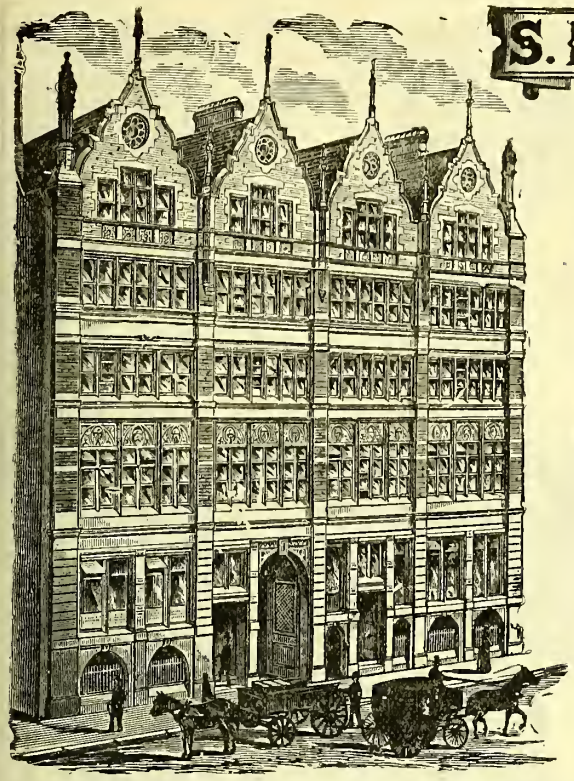


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CORRESPONDENCE INVITED.

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SAMPLES SENT POST FREE ON APPLICATION.

REDUCED PRICES.

	Per lb.	5 per cent. Monthly a/c.	Not less than 112 lbs. each or assorted, per lb	5 per cent. Monthly a/c.
Maw's No. 11 Lint	1/2		1/-	
Maw's No. 1 Hospital	1/2		1/-	
Maw's No. 2 Hospital	1/6		1/3	
Maw's Superior Hospital	1/9		1/6	
Maw's Superior Surgeons'	2/-		1/9	
TAYLOR'S Super A1 Flax *Improved, Absorbent*	3/-		2/6	
Ditto, in 1-oz. packages	3/6		3/-	

S. MAW, SON & THOMPSON,

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ABSORBENT COTTON LINTS, FLAX LINTS, ROLL BANDAGES, COTTON WOOLS, GAUZE,

MANUFACTURED BY

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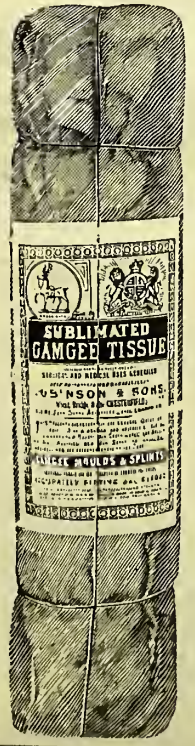
TRADE MARK REGISTERED.

ESTABLISHED 1839.

"GAMGEE TISSUE."



We are the only Surgical Dressing Manufacturers in the World who Spin, Weave, Bleach, and Manufacture from the Raw Cotton.



ROBINSON'S DRESSING

(PATENT),

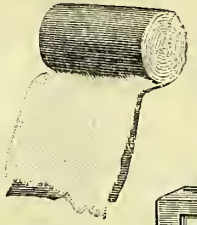
And all kinds of

ANTISEPTIC DRESSINGS.

SANITARY TOWELS for Ladies.

Speciality: MENE TOWELS.





Absorbent Cotton in Tissue Paper.

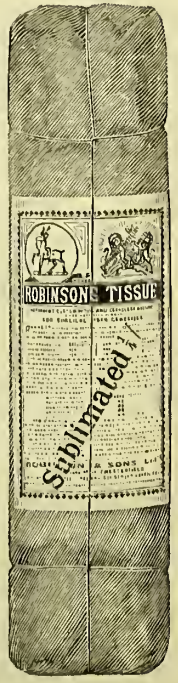
Absorbent Cotton in Cartons.

Absorbent Bandages in Cartons.

Air-tight Case Antiseptic Gauze.

Prices and Free Samples on Application.

ASK FOR ROBINSON'S "STAG" BRAND WHEN ORDERING FROM THE WHOLESALE HOUSES.



FACTS SUPPORT OUR GUARANTEE!

SEABURY'S
Belladonna Plasters

Messrs. SEABURY & JOHNSON have for years maintained ·5 per cent. of Belladonna Alkaloids as the standard strength for their Belladonna Plasters, and for this reason no change has been called for in their formula, which has now been standardised by the British Pharmacopœia. Honest and standard goods *ONLY* have always been manufactured and supplied, hence protection and satisfaction has always been secured by Chemists stocking Seabury & Johnson's Belladonna Plasters. Independent analyses and published official reports support their statements, and, furthermore, prove that Seabury & Johnson's Plasters alone can be relied upon.

GOLD MEDAL AWARDED AT THE GRAHAMSTOWN EXHIBITION.

GUARANTEES UNSUPPORTED BY FACTS ARE MISLEADING.

Report of "THE LANCET," December 3rd, 1898.

"SEABURY & JOHNSON'S BELLADONNA PLASTERS are not only "satisfactory on account of the rubber basis, but—of more importance still— "are standardised in regard to the constituents of Belladonna, the yield of "alkaloids on analysis being just slightly over half per cent. in accordance "with Pharmaceutical requirements. These Plasters may therefore be relied "upon."

The Name of SEABURY & JOHNSON on any Plaster stands for a guarantee of full Pharmacopœial strength, and the highest standard of excellence of manufacture and uniformity.

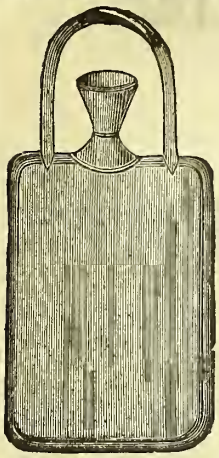
A Written Guarantee is given to Purchasers of Seabury & Johnson's Plasters where requested.

SEABURY & JOHNSON,

SOLE DEPOT FOR GREAT BRITAIN AND COLONIES:

FASSETT & JOHNSON, 31 & 32 Snow Hill, LONDON, E.C.

HOT WATER BOTTLES, RUBBER BANDAGES, &c., &c.



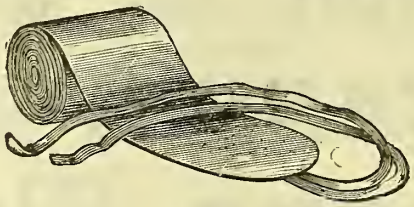


Fig. 400.

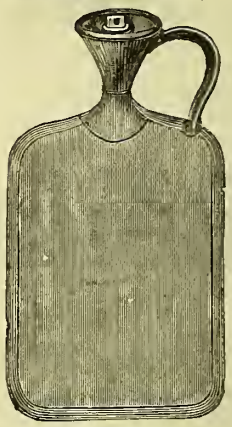


Fig. 957.

THE "EMPIRE" PURE PARA BANDAGES (Fig. 400).

	Width, in.	5 ft.	7½ ft.	10½ ft.	15 ft.	21 ft.
Light Substance	3	1/-	1/6	1/11	2/10	3/9 each.
" "	2½	-/11	1/4	1/9	2/6	3/5 "
Heavy "	3	1/-	1/6	2/-	3/-	4/- "
" "	2½	1/-	1/5	1/10	2/9	3/8 "

Plain, Pricked, or Perforated are all the same price.

CLINICAL THERMOMETERS (Guaranteed English Make).

Ordinary.	Flat Back.	Lens Front.	30-sec.	30-sec., Lens Front.
13/6	21/-	30/-	27/-	48/- doz.

Name Engraved Free for Orders of not less than ½ doz.

Fig. 955.

HOT WATER BOTTLES (Figs. 955 or 957).

Size.	Light Substance.	Heavy Substance.	Covers.
8 by 6	2/-	2/6	-/9 each.
10 by 6	2/5	3/-	-/9 "
10 by 8	3/-	3/9	-/11 "
12 by 6	2/9	3/6	-/11 each.
12 by 8	3/6	4/6	1/- "
12 by 10	4/-	5/-	1/- "
14 by 8	4/-	5/-	1/- each.
14 by 10	4/6	6/6	1/2 "
14 by 12	5/3	6/6	1/3 "

Owing to the continued advance in Price of Raw Rubber we are compelled to add an advance of *10 per cent.* to above Prices of Hot Water Bottles and Rubber Bandages. This advance will be taken off immediately the state of the Rubber Market will permit. We are convinced that a Trial Order will show better value than others in the market. Our Polished "Empire" Enema Syringe, at 17/- dozen, plus 10 per cent. advance, is still without a rival as a high-class article at a low price. *Will not get hard in cold weather.*

Write for Free Illustrated Catalogue and compare our Prices with other Houses. The Quality of all our Goods we guarantee to be the Best.

BURGE, WARREN & RIDGLEY, 91 & 92 GREAT SAFFRON HILL, LONDON, E.C.

RENDELL'S



"WIFE'S FRIEND" SOLUBLE QUININE PESSARIES.

IMPORTANT NOTICE AND CAUTION

Several Injunctions in the High Court of Justice having already been obtained against "Infringers" (reports of which have appeared in "The Chemist and Druggist," the most recent being in issues of April 24 and May 29, 1897, and March 19, 1898), W. J. RENDELL'S SOLICITORS are instructed to take proceedings against all persons (Makers or Vendors) fraudulently using the name of "W. J. RENDELL," "RENDELL," or any colourable imitation thereof, in connection with Pessaries *not* manufactured by

W. J. RENDELL,

Inventor and Sole Maker of the "WIFE'S FRIEND" SOLUBLE PESSARY,

15 CHADWELL STREET, CLERKENWELL, LONDON, E.C.

See that the Registered Trade Mark and Number (but in red ink) are upon each box thus:—

Registered Trade Mark without which none are genuine. No. 182,688.

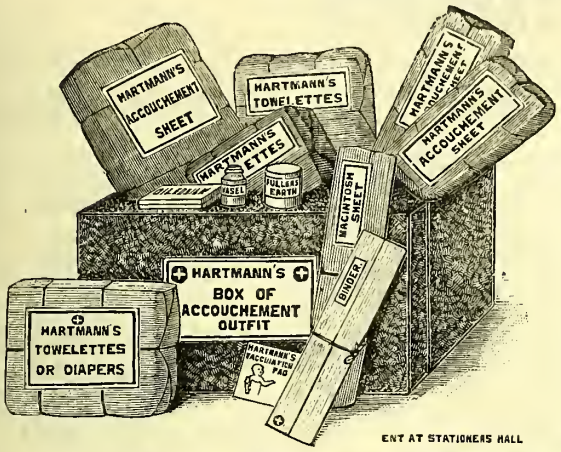
W. J. Rendell

Registered also in Australia, India, The Cape, The Argentine, Germany, &c.

IMPROVED OBSTETRIC REQUIREMENTS.

RISK OF PUERPERAL SEPTICÆMIA

IS REDUCED TO A MINIMUM BY USING



HARTMANN'S

COMPLETE

GUINEA OUTFIT FOR ACCOUCHEMENT.

It contains 3 different sizes of Hartmann's Absorbent Wood Wool Sheets, 4 dozen Hartmann's Hygienic Towelettes, Binder, Safety Pins, Antiseptic Ointment, Thread Umbilical Pad, Fullers' Earth, Oiled Silk, Macintosh Sheeting, &c.

It affords great cleanliness and comfort to the patient, and diminishes the risk of puerperal fever.

Too much attention cannot be given in selecting the best articles for use during confinement, and in the interest of their patients we ask physicians and nurses to recommend Hartmann's Complete Guinea Accouchement Outfit.

A Smaller Outfit is also put up, price 10s. 6d.

Price List to Chemists on Application.

HARTMANN'S

From 6d. to 2s. per dozen.

HYGIENIC WOOD WOOL TOWELETTES.



PUT UP IN THE FOLLOWING SIZES:—

In YELLOW Paper, 2/- per dozen size (special make for use after Accouchement).
In GOLD Paper, 2/- per dozen size.
In BLUE Paper, 1/4 per dozen size (new make).
In WHITE Paper, 1/- per dozen size.
In BROWN Paper, 6*d.* per dozen size (our new Halfpenny Towelette).

} Superior to any other make.

FOR HOME USE, DELICATE HEALTH, FOR LADIES' TRAVELLING AND ACCOUCHEMENT, THEY ARE INVALUABLE AND INDISPENSABLE. THEY ARE SOFT, LIGHT, ANTISEPTIC, AND ARE SUPPLIED AT THE ACTUAL COST OF WASHING. AFTER USE THEY ARE SIMPLY BURNT.

Price List to Chemists on Application.

ACCOUCHEURS WILL FIND IT A GREAT COMFORT TO THEIR PATIENTS BY USING

HARTMANN'S SANITARY WOOD WOOL SHEETS



For Accouchement, Bedsores, Operations, &c.

PERFECTLY ANTISEPTIC, CLEAN AND COMFORTABLE.

The most comfortable Appliance for Accouchement ever made.
"Risk of Puerperal Fever Diminished."
A Great Boon for Patient, Nurse, and Physician in attendance.

Used in the Principal Lying-in Hospitals of London, Manchester, Edinburgh, Glasgow, &c.

These Sheets are made of Hartmann's Patent Wood Wool Wadding, the most absorbent substance ever known. They are most comfortable and healthy, are perfectly antiseptic, have not the disagreeable smell so common to indiarubber sheets, and are much cheaper. In Accouchement a large sheet is laid under the patient, it absorbs the discharge completely, and is SIMPLY BURNT after use. No soiled clothes; risk of puerperal fever greatly lessened; and perfect comfort and cleanliness.

Prices of the Three Sizes ... ... 1/-, 1/6, and 2/6.

Sizes—24 by 18 in., 26 by 20 in., 32 by 32 in.

Price List to Chemists on Application.

THE SANITARY WOOD WOOL CO., LTD.,

26 THAVIES INN, HOLBORN CIRCUS, LONDON, E.C. *Telegraphic Address*—"LIGATURE LONDON."

CORRESPONDENCE WITH SHIPPERS INVITED.

REGISTERED TRADE MARK

VIMULE

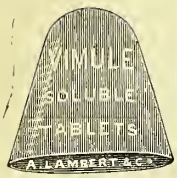
REGISTERED TRADE MARK

SOLUBLE TABLETS

Previously Advertised as

LAMBERT'S SOLUBLE QUININE TABLETS.

PERFECTLY PREPARED.



ABSOLUTELY RELIABLE.

SALE UPWARDS OF 8,000,000.

These Tablets are manufactured by us of the best materials procurable. We guarantee every one to be of accurate proportions, and can with confidence recommend them to the trade as one of the best ever introduced.

They are packed in specially neat metal boxes of 1 doz., and sealed with our Registered Label, without which they are not genuine.

Our method of packing particularly adapts them for exportation. Being practically air-tight they will keep in perfect condition for a long period, and liability to injury by variation of climate is reduced to a minimum.

Advertised to retail at 2/- per box of 1 dozen. 5/- for three boxes. 9/6 for six boxes. 17/- for 12 boxes.

Trade Price.

12/6 net per dozen boxes of 1 dozen each.

Single boxes 1/3, including postage.

Orders of ½ doz. boxes and upwards sent post free.

Can be obtained through any wholesale house.

PERFECTLY PREPARED.



TRADE PRICES MODERATE.

SALE UPWARDS OF 8,000,000.

A. LAMBERT & CO., 16 DALSTON LANE, LONDON, N.E.

THE SUSPENSORY BANDAGE

TO RECOMMEND IS

The "SYRACUSE,"

With SELF-ADJUSTING LOOP at back of Pouch.

(PATENTED IN ENGLAND.)

HAS THE

LARGEST SALE

OF ANY

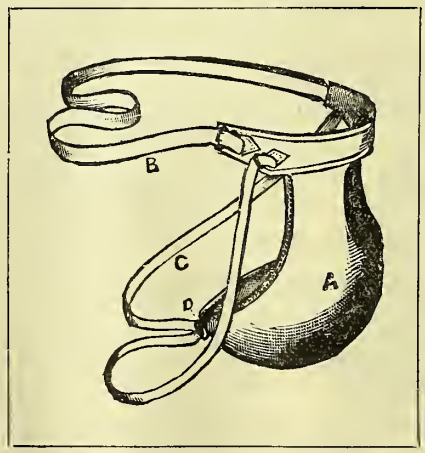
SUSPENSORY BANDAGE

IN THE STATES.

3 Sizes, Large, Medium, & Small.

Made in Seven Qualities, to suit all Markets.

Each Bandage is boxed separately with Printed Guarantee.



Each Bandage bears a Guarantee to give satisfaction to Wearer, or money returned at our expense.

COTTON POUCHES.

Nos.	10	16	21
	6/6	12/-	18/- per doz.

SILK POUCHES.

Nos.	26	31	34	36
	24/-	30/-	48/-	72/- per doz.

We call attention to the fact that our Bandages are advertised in all the leading Athletic papers, and are largely used by Athletes of all kinds. We would strongly recommend all Chemists who require a first-rate Bandage, and who wish to give satisfaction to their Customers, to hold stock, which will enable them to supply our Bandages when asked for.

May be obtained from all leading Druggists' Sundries Houses throughout the Country, or from the

WELLS MANUFACTURING CO. (H. C. Quelch), LUDGATE SQUARE, LONDON, E.C.

JAMES L. HATRICK & CO., LIMITED

WHOLESALE AND EXPORT.

WHOLESALE SURGICAL INSTRUMENT DEALERS.

ABSORBENT COTTON WOOL, Lint, Antiseptic Dressings, Cat Gut in patented 3-reel Bottles, Coils, and in every form; Dental Floss, Plaster Paris Bandages, Rubber Drainage Tubes, best English Purified Rubber, Surgical Safety Pins, Surgical Blanket Pins, Hypodermic Syringes, Silver Wire, Stethoscopes, Adhesive Rubber Plaster on Spools, Antiseptic Zimocca Sponges, Abdominal Sponges, &c.

IMPORTERS of Silkworm Gut, Oiled Silk, &c.

SOLE AGENTS for Stoddart's Patented Aseptic Surgical Splints, moulded to fit every part of the body. Write for Illustrated Price List.

VENDORS of Pharmaceutical Machinery. Improved Tablet Presses, single and triple, &c.; improved Rapid Pill-Coating Machines; improved Power Pill Cutters, &c., &c.

IMPORTERS AND SOLE AGENTS for American Yellow and White Petroleum Jellies, B.P., Paraffinum Liquidum, B.P., refined by the Union Petroleum Co., Philadelphia, U.S.A. In tins, 4 oz., 8 oz., 1 lb., 10 lbs.; in pails, 28 lbs.; in kegs, 1 cwt.; in barrels, 3 cwt.

NOTE.—When ordering Petroleum Jelly ask for Hatrick's. All our Petroleum Jellies are pure American. Chemists should, therefore, ask for Hatrick's Petroleum Jellies, as the market is flooded with French Vitriolic and German Sulphuric imitations which irritate the skin and poison the blood.

Our well-known Brands "A A," "A," "B," "C."
Can be put up in Foreign Weights if required.

DUN'S IMPROVED SOFT AND HARD GELATIN CAPSULES.
We have made great reductions in the prices of these Capsules. Write for List. Fixed profits to Retailers.

HINKSMAN'S ASTHMA RELIEVER.

HATRICK'S BUTTER COLOUR.

WELLS & RICHARDSON CO.'S Golden Extract of Annatto.

NOTE.—Great reductions in prices. Surgical Safety Pins, No. 1, 2/-; No. 2, 2/6; No. 3, 3/-; No. 3½, 3/6 per gross. These pins open from both sides. We give a small glass counter case free of charge with all orders of 5 gross and upwards.

All Indents should have our Name and Address.

WRITE FOR OUR NEW PRICE LIST, WHICH WILL BE READY SHORTLY.

James L. Hatrick & Co. Ltd. Wholesale Surgical Instrument Dealers, &c., **82 Turnmill St., E.C.**
(NEXT BOOTH'S DISTILLERY.)

PERONI'S NEW PATENT CLINICAL THERMOMETER

The "IDEAL."

No more Shaking Down Required. The Greatest Invention in Clinical Thermometers ever Patented.

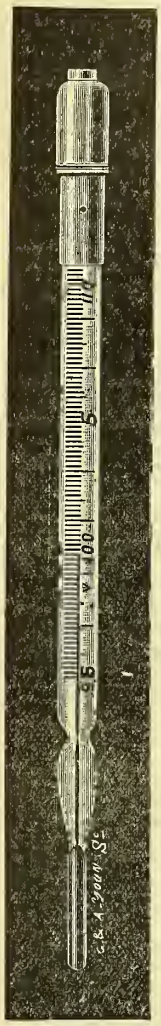


Fig. 1.



Fig. 2.

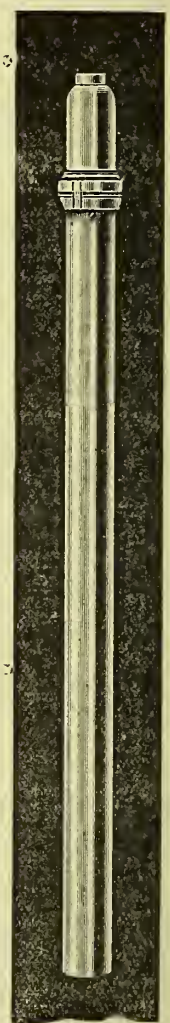


Fig. 3.

By simply pressing the knob, as shown in illustration (fig. 2), the index can be reset immediately; it cannot get out of order, and is pronounced by competent judges to be the best clinical on the market.

CHEMISTS, BE IN TIME TO MEET THE DEMAND, AND ORDER FROM YOUR WHOLESALE HOUSE AT ONCE.

Prices from 30/= doz.

Fig. 1 shows Clinical only.
Fig. 3 shows Clinical complete in case.

A. PERONI (*Late L. PERONI*),

Inventor, Original Patentee, and Manufacturer of the Lens Magnifying Clinicals,

45 Hatton Garden, LONDON, E.C.

WILLIAM MATHER, Ltd.

MANUFACTURERS OF ALL
Surgical Plaisters

MANCHESTER.

BELLADONNA * * POROUS PLAISTERS

42/-

PER GROSS. 7½ × 5 in.
Subject to usual discount.

* * RUBBER COMBINATION

GUARANTEED TO CONTAIN 0·5 PER CENT.

ROOT EXTRACT BELLADONNA ALKALOIDS.

***N.B.*—Belladonna Plaisters, made in strict compliance with the new 1898 Pharmacopœia, ARE REDDISH BROWN IN COLOUR.**

SAMPLES AND PRICES ON APPLICATION.

London Agents: MACE & HALDANE, 94 Milton St., E.C.

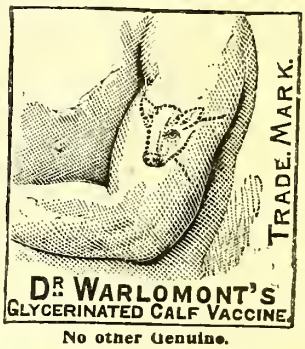
THE ORIGINAL

Dr. WARLOMONT'S GLYCERINATED CALF VACCINE

(Introduced into England in 1883.)

Every antiseptic precaution most carefully observed. Tubes, 1s. 9d., half-tubes, 1s. each, post free.

The adoption of GLYCERINATED CALF VACCINE is now recommended in the report made by Sir Richard Thorne Thorne, K.C.B., to the President of the Local Government Board.



No other Genuine.

SOLE AGENTS FOR GREAT BRITAIN, COLONIES, AND UNITED STATES:—

MARKT BROS. & CO., 38 & 39 Beech Street, BARBICAN, LONDON, E.C.

Telegraphic Address:—"EXTRADOTAL."

THE ASSOCIATION FOR THE SUPPLY OF PURE VACCINE LYMPH

(ESTABLISHED 1877).

12 PALL MALL EAST, LONDON, S.W.

CALF and HUMAN.



Trade Mark Regd.

Telegraphic Address—
"DARQUE LONDON."

Office Hours—
10 till 4. Saturdays, 10 till 2.

Pure and Reliable.

GLYCERINATED PURE CALF VACCINE was first introduced in England in 1882, and since that date no other preparation has been sold by this Association. Its use in S.V. tubes, with an ANTISEPTIC INJECTOR is now required by the Local Government Board. See Instruction to Public Vaccinators, 19th October, 1898.

SINGLE VACCINATION (S.V.) TUBES, 6d. each. TUBES, 1/6, and HALF-TUBES, 1/- each. PIN POINTS, 1/- per doz.

VACCINE ANTISEPTIC EJECTORS, 1/3. VACCINATORS which remove the cuticle without drawing blood, 5/-, post free

HUMAN VACOINE from healthy children only, microscopically examined and source quoted. Tubes two-thirds full, 1/8 each; one-third full, 1/- each
Special quotations for quantities.

P.O.O. (including postage, and crossed London and Westminster Bank) with orders payable to EDWARD DARKE, Secretary.

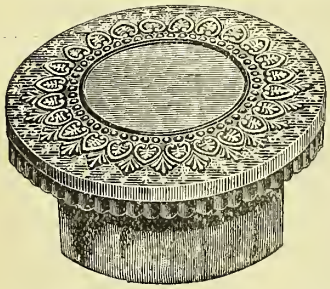
THE 'STIPENDUM'

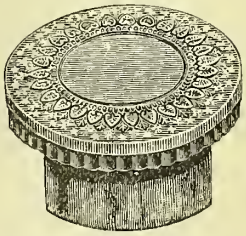
Stopper Company Limited,

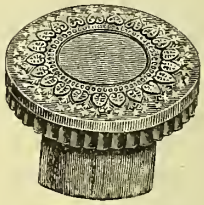
47 LAMB'S CONDUIT STREET, W.C., LONDON,

Will have much pleasure in sending samples of "Stipendum" stoppers (blue), a new colour and design; they have now ready a series of these for Kali and Citrate bottles in all sizes from half to twenty ounce, and can confidently recommend them for ***Export*** as well as home use.

During the last twelve years that their manufactures have been before the public they have established for themselves a reputation all over the world alike for effectiveness and neatness of appearance; being unaffected by climatic influences, they hold their superiority over ***wood-topped*** or any ***other stopper.*** On account of the variation in size of bottle mouths, they have made arrangements with the bottle trade to supply these new stoppers fitted to their bottles so that they will be obliged to you for applying to your ***particular bottle-merchant*** for quotations, which ought to be equal to or even less than bottles fitted with boxwood-topped corks. A space on the head of the stopper is left plain for a label. These stoppers may be had fitted to bottles from Druggists' Sundriesmen and all leading Bottle Makers. "Stipendum" being a Malleable composition Stoppers can be impressed with Name, Trade Mark, or any design; the ordinary colours are Black, Terra-cotta, and Chocolate, but for sufficient quantities any shade of colour can be arranged.







Soho Square, London.

"We have used your **'STIPENDUM' STOPPERS** increasingly since 1887, and like them for their neat appearance and effectiveness.

"(Signed) For CROSSE & BLACKWELL, Ltd.
"Thos. F. Blackwell, Director."

Garrick Street, London.

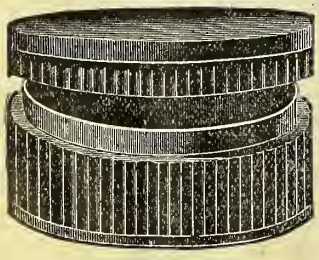
"We have been using the **'STIPENDUM' STOPPERS** for about two years past, and highly approve of them for their efficiency and general appearance.

"(Signed) E. BROWN & SON."

Marlboro' Works, Peckham, S.E.

"We have much pleasure in testifying to the utility of your Bottle Stopper; we have now been using it since the commencement of 1892, and have found it thoroughly effective, and answering all the purposes required of it.

"Yours faithfully, (Signed) J. E. MAULL, Secretary Mellin's Food, Ltd."

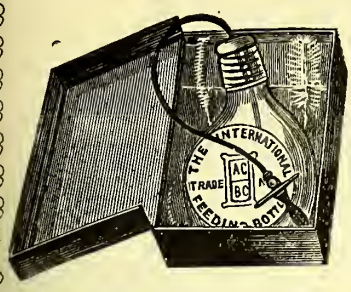


"STIPENDUM" GREASE-PROOF COVERED POTS.

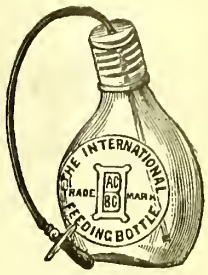
In Terra Cotta, Chocolate, and Black.

The Grease-Proof Covered Pots have perfectly-fitting lids, are practically unbreakable, and the only articles really answering the purpose intended.

To be had of all Druggists' Sundriesmen, Shippers, and Wholesale Houses.



"The International" FEEDERS



REDUCED PRICES.

BLACK RUBBERS. GLASS UNIONS. SEAMLESS TEATS. EACH IN PAPER BAG.

93. GREEN BOTTLE, Screw Glass Stopper, **25/-** gross. | 95. GREEN BOTTLE, Box Top Cork ... **24/-** gross
94. WHITE " " " " **27/-** " | 96. WHITE " " " ... **26/-** "

ILLUSTRATED PRICE LISTS FREE ON APPLICATION.

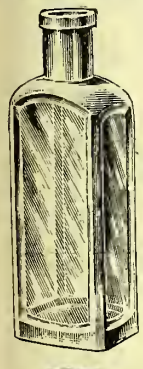


STOPPERED ROUNDS. Cut Globe Head Stoppers.

	1	2	4	8	16	20	30	40 oz.	
N.M.	2/2	2/3	2/8	3/6	4/6	5/-	5/9	6/6	Per doz.

Plain Globe Head Stoppers,

	1	2	4	8	16	20	30	40 oz.	
N.M.	1/8	1/9	2/2	3/-	4/-	4/6	5/-	6/-	Per doz.
W.M.	1/11	2/-	2/5	3/3	4/6	5/-	5/9	6/6	"



COUGH MIXTURE FLATS. Panelled.
Pale Blue Tint.

1¼	2	2½	3	4	5	6	8 oz.
6/-	7/-	7/6	8/6	10/-	11/-	11/6	12/- P. gr.

LUNDBORGS.

	½	1	1½	2	3	4 oz.	
Plain	6/-	7/6	8/-	9/-	10/6	11/6	P. gr.
Stoppered ...	14/6	16/-	17/-	18/-	21/-	22/-	"

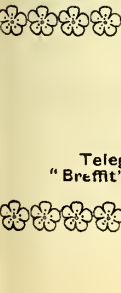


WHITE METAL SCREW-CAP ROUNDS.

¾	1	1½	2	2½	3	4	6 oz.
9/6	11/-	12/-	12/-	14/-	14/6	15/6	16/- P. gr.

PANEL FLATS. White Flint.

	1	1½	2	3	4	6	8	10	12	16	20 oz.	
N.M., Plain,	6/-	7/-	8/-	10/-	10/6	12/6	13/6	19/-	21/6	26/-	30/-	P.gr.
Ground Glass Stoppers	15/-	16/-	17/-	20/-	20/6	25/-	27/-	32/6	35/-	41/-	48/-	"



GRADUATED MEASURES.

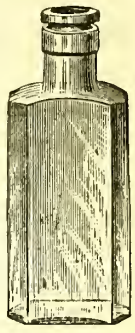
½	1	2	4	10	20	32	40 oz.
5/6	5/6	7/6	8/-	10/6	13/6	16/-	18/-

Bearing the Government Inspector's mark of verification.

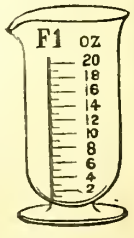
CHELTENHAMS. Pale Green or Pale Blue Tint.

	1	2	3	4	6	8	10	12	16 oz.	
	5/-	6/-	6/6	7/-	8/-	9/-	13/-	15/-	16/-	P. gr.
Fitted Glass Stopper, Cork Rings	—	—	10/-	11/-	12/-	13/-	18/-	21/-	21/6	"

HONEY JARS. JAM JARS. JELLY JARS.







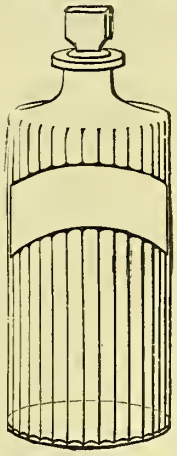
BREFFIT'S, LIMITED,

Telegrams: "Breffit's London." **83 Upper Thames Street, LONDON.** Telephone 849 Bank

TOOGOOD'S WHITE GLASS
POISON SHOP ROUNDS
(Conforming to the Poison Regulations).

Extract from Regulations—

b. Poisons to be kept in a bottle or vessel, ***distinguishable by touch*** from the bottle or vessel in which ordinary articles are kept in the same warehouse, shop, or dispensary.



SIZES:—

	8	16	20	32	40	48	oz.
Height to Shoulder	4	5	5¼	6¼	7	7¾	in.
Height to top of Stopper	5⅜	7⅛	7¾	9	10¼	10¾	in.
N.M.	8/-	11/-	12/-	15/-	16/-	18/-	doz.
W.M.	9/-	12/-	13/-	16/-	17/-	19/-	„

LABELLING IN GOLD, 3 6 doz.

WILLIAM TOOGOOD,
Burlington Buildings, Heddon Street, Regent Street, LONDON, W.



H. POTHS & CO., 4, 5, AND 6 BURY COURT, ST. MARY AXE, E.C.
SHOP BOTTLES AND JARS WITH VITRIFIED (BURNT IN) LABELS.
METAL SCREW-CAP BOTTLES, GLASS MEASURES, STOPPERED BOTTLES, &c.
Buyers are requested to pay a visit to our New Showrooms.

R. H. BARRETT'S PATENT CAPPED BOTTLE.
The only REALLY PERFECT Bottle for Vaseline, Boot Creams, Pomades, Dry Powders, &c.



PRICES:

TALL SERIES, fitted with STRONG METAL CAPS, CORK-LINED, in various Colours, very attractive in appearance:—

1-oz. 11/6; 1½-oz. 12/-; 2-oz. 12/9; 3-oz. 15/9; 4-oz. 17/3 per gross, &c.

Special Prices on application for Quantities.

CHEMISTS' AND PERFUMERS' BOTTLES IN GREAT VARIETY, PLAIN OR STOPPERED.



R. H. BARRETT,
FLINT GLASS BOTTLE WORKS, THE OVAL, CAMBRIDGE HEATH, LONDON, E.
TELEGRAPHIC ADDRESS—"FOREFRONT LONDON."

The Privy Council has assented to the Poisons Regulations, which are now (February, 1899) compulsory.

VERY DISTINCTIVE BOTTLES FOR POISONS.

Telegraphic Address: "GLASSCOY," YORK.

ESTABLISHED A.D. 1794.

Patent Phototype Recess Labels.

(IMPERVIOUS TO ACIDS.)



N. M. Poison with Phototype Label. Fig. 66.

THE YORK GLASS CO., LTD.,

YORK, ENGLAND.

ROUNDS, ribbed, for Poison, stoppered, **N. Mo.** and **W. Mo.**, in **white** or actinic glass. **Fig. 66.**

Fluid contents about	5	10	20	30	40 oz.
Average height to top of square head Stopper...	5⅝	9½	7⅝	8⅝	9¼ inches.
Price per dozen with square head Stopper ...	21/6	21/6	24/6	27/-	28/-

The above poisons are supplied in actinic green glass, *unless otherwise ordered.*

The Labels, as an additional precaution, are prepared with a **red ground edged with white.** Fig. 66.



W. M. & N. M. Ribbon-pattern Recessed Poiso Bottle. 5 oz. and 8 oz.

ROUNDS, ribbed, for Poison, stoppered, **N. M.** and **W. M.**, in white or actinic glass. with recess gold ribbon label. Fluid contents about 5 oz. and 8 oz., total height 5¾ inches. Price **21/6** per dozen.

FOR THE POISON CUPBOARD.

	½ oz.	1 oz.	1½ oz.	2 oz.
POISONS, **Wide Mouth**, Hexagon, white, or actinic	3/-	3/3	3/3	3/9 per dozen, Stoppered.

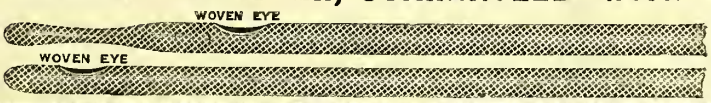
London Office and Showroom: 76 Finsbury Pavement, E.C.

ESCHMANN BROS. & WALSH.

Inventors and Manufacturers of the

SOFT SILK FLEXIBLE CATHETER, GUARANTEED WITH WOVEN EYES.

To be had of all Surgical Instrument Makers and Wholesale Houses.



To be had of all Surgical Instrument Makers and Wholesale Houses.

WOODRUFF'S CELLULOID SPRAY APPARATUS

FOR THE NOSE AND THROAT.

PATENTED IN ENGLAND AND ABROAD.

WRITE FOR PARTICULARS TO **T. WOODRUFF, Ph.C., WITHINGTON, MANCHESTER.**

DISPENSING BOTTLES.

THE NORTH LONDON GLASS BOTTLE COMPANY

(I. ISAACS & CO., Proprietors)

Beg to inform the Trade that they have made a further reduction in the price of their Bottles, as follows:—

The NEW SHAPE FLAT BOTTLES, with rounded edges, plain or graduated—

3 & 4 oz. ..	*7/6* per gross.	10 & 12 oz. ..	*12/-* per gross.
6 ,, 8 ,, ..	*8/6* ,,	16 ,, ..	*16/-* ,,

WHITE MOULDED PHIALS, plain or graduated Teaspoons—

½ oz... ..	*3/6* per gross.	1½ oz.	*4/6* per gross.
1 ,, ...	*3/9* ,,	2 ,, ...	*5/-* ,,

PLEASE NOTE.

Six gross and upwards, assorted or otherwise, are carriage paid to any address in England; smaller quantities not carriage paid.

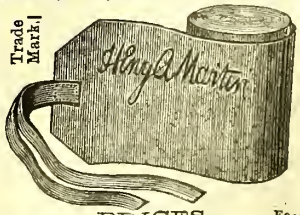
I. ISAACS & CO., Glass Bottle Manufacturers,

106 MIDLAND ROAD ST. PANCRAS, LONDON.

Established 50 years. *Bankers—London and Westminster Bank.*

DR. MARTIN'S PURE RUBBER BANDAGES.

For Varicose Veins, Ulcers, Eczema of the Leg, Swollen and Weak Joints.



Caution.—Please order *Genuine Martin's Bandages*, each being stamped with Dr. Martin's signature. All others are *Spurious Imitations.*

Complete Price List Trade Discount, and Dr. Martin's Pamphlet post free.

No.	PRICES.	Feet	Inches	Each
3A	Thin, for ankle, elbow, wrist, and forearm ..	6	2½	3/6
3.	Thick ,, ,, ,, ,, ..	6	2½	4/-
1B.	Thin, for leg below knee..	10½	3	5/6
1A.	Thick ,, ,, ...	10½	3	7/6
8.	Thin, for leg and knee	14	3	7/6
7.	Thick ,, ...	14	3	9/6
9B.	Thin, for leg and thigh	21	3	10/6
9A.	Thick ,, ...	21	3	13/6

Sole Agents—**KROHNE & SESEMANN, SURGICAL INSTRUMENT MAKERS, 8 DUKE STREET, MANCHESTER SQUARE, LONDON.**

POISON BOTTLES.



Front View.

Specially Constructed for the New Act.

Extra stout and strong, and so built that it is actually impossible to make a mistake.

Every Bottle is warranted accurate and sound.

1	1½	2	3	4	6	8	10	12	16	20 oz.
5/9	6/6	7/6	9/-	12/-	15/-	15/-	18/-	21/-	27/-	30/- gross.

Also supplied for Stock use, Stopped and complete with Handsome Gold Label.

10	12	16	20 oz.
8/6	9/-	9/6	10/- per doz. complete.

All above are made of Extra Quality Dark Blue Glass.



Back View.

SAMPLES ON APPLICATION.

AYRTON & SAUNDERS
LIVERPOOL.

BOTTLES FOR ALL REQUIREMENTS





Trial Orders and enquiries solicited by

E. YOULDON,

ESTABLISHED 1840,

East London Glass Bottle Warehouse,

36, 38 & 40 GREAT GARDEN ST., WHITECHAPEL, LONDON, E.

Telegraphic Address—"YOULDON LONDON."



LISTER'S ANTISEPTIC DRESSINGS

(ISDAMA BRAND).

See that the Red Cross is on every package.

TRADE SDAM MARK.

Be sure to specify **MILNE'S LISTER'S.**

Prepared according to Lord Lister's personal instructions.

MILNE'S ABSORBENT WOOL, LINT, TISSUE, BANDAGES.

LISTER'S DOUBLE CYANIDE GAUZE.

MILNE'S JACONET BED-SHEETINGS, OILED SILK.

PLEASE APPLY FOR JOHN MILNE'S ILLUSTRATED CATALOGUE.

THE GALEN MANUFACTURING CO., LTD., Antiseptic Dressings Factory, **LADYWELL S.E**

GLASS BOTTLES

MADE IN LONDON.

Why send your orders out of England when you can buy Cheaper in London, with daily delivery?

WE MAKE ANY BOTTLE AND COLOUR.

Our Patents cover many Improvements specially suited for Home and Export Trade.

FITCH-SYPHONS

A NEW PATENT.

Exhausts thoroughly all Liquids under Pressure.

Leaves no fluid at the bottom.

Mineral-water Manufacturers will appreciate this simple invention, as every Syphon will be actually emptied; consequently all doubt and danger of filling on to stagnant matter, which now is unavoidable, will be removed without additional cost. Syphons always sweet and clean.

FITCH GLASS CO.

GLASS BOTTLE MANUFACTURERS by Electro Motors,

UNDER ROYAL LETTERS PATENT TO W. B. FITCH

(Memb. PHARM. SOC., SOC. ARTS, &c.),

NEW CROSS TANK GLASS WORKS

Mornington Road, LONDON, S.E.

NO CHEMIST should be without

WATSON & WATES'

CASES FREE.

Send for Price List, &c.

HOMŒOPATHICS

WATSON & WATES, 93 LEADENHALL STREET, LONDON, E.C.

Profitable Extras for Chemists.

TOBACCO, CIGARS, CIGARETTES.

AND TOBACCONISTS' FANCY GOODS.

All Packet Tobaccos, Cigarettes, and other Tobacconists' Proprietary goods supplied at Manufacturers' own List Prices.
Every Smoker's Requisite and all Novelties—Up to Date—in one order.

MINIMUM OF TROUBLE—MAXIMUM OF PROFIT.

SEND FOR ILLUSTRATED PRICE LIST (200 PAGES), POST FREE.

SINGLETON & COLE, BIRMINGHAM.

NEW CAPSULING MACHINE

The only Machine which leaves no crease or pleat on the Capsule.



**Can be fixed to any Counter.
A single pull of the lever is sufficient to fix the Capsule.**

Patentee—C. MELIN, 37 Crutched Friars, LONDON, E.C.

THE SURGEON'S LINT,

V.B. QUALITY.

The superior quality of **Newsome's Absorbent Surgeons' Lint** is universally admitted. The V.B. quality is quite pure and of great superficial area and exquisite softness. The C., D., E., and F. qualities are equally pure and absorbent; E. is stronger in fabric.

NEWSOME'S BLEACHED ROLLED BANDAGES, 3 in., 2½ in., 2 in. Also SURGICAL ABSORBENT OPEN BANDAGES.

Specially Bleached and Grey Carded Cotton Wools, Absorbent & Bleached & Grey Waddings; also Sheet Waddings, Tow, &c.

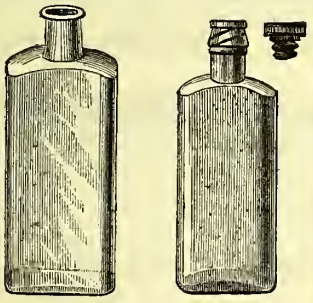
THE TRADE SUPPLIED THROUGH THE LONDON AND PROVINCIAL WHOLESALE HOUSES, OR FROM

C. NEWSOME, MANUFACTURER, BEEHIVE MILLS, ANCOATS, **MANCHESTER.**

London Agents—**B. PRATT & CO., 1 Wood Street, E C.** *Telegraphic Address*—"Newsome Ancoats Manchester."

Glass Bottles





FOR

Drugs

(Fluid and Powder),
Citrate Magnesia and Salines,
Castor and other Oils,

Dispensing

(For Corks & Screw Stoppers),
Cough Mixtures,
Perfumery and Toilet Preparations,

Feeding

Embrocations,
Polishes (Boot & Furniture),
Disinfectants,
Stains, Varnishes,

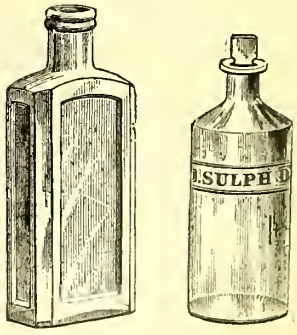
Aërated Waters

(For Corks and Stoppers),

Wines, Spirits

And many other purposes.





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KILNER BROTHERS,

No. 3 G.N. GOODS STATION, KING'S CROSS, LONDON.

Telegraphic Address:
"SOOTHERS BIRMINGHAM."

E. W. B.
Trade Mark.

No connection with any other firm of the same name.

DRUGGISTS' SUNDRIES

OF EVERY DESCRIPTION.

Being a Cash Buyer and Manufacturer of the Leading Lines in above, lay myself out to do business and to overcome competition.

QUALITY OF GOODS GUARANTEED.

WRITE FOR PRICE LIST, WHICH WILL BE FORWARDED FREE ON APPLICATION,

EDWARD WOOLF

Manufacturer of Druggists' Sundries,

ST. GEORGE'S CRESCENT, BIRMINGHAM.

VINCENT WOOD'S

LATEST SPECIALITIES—

Send for my Price List.



The "Eureka"

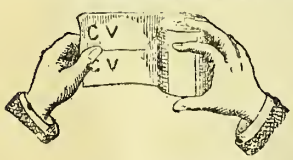
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The Pad is made of a Patented Elastic Composition, which is not affected by heat or cold, and the wear very luxurious.

Prices per doz.	A	B	C quality.
Single ..	18/6	27/-	30/-
Double ..	27/-	42/-	45/-

Another great Surgical Invention is

THE EUREKA "CREPE VELPEAU" RUBBERLESS POROUS BANDAGES.



They will supersede every other in the near future.

In Bandages 2 2½ & 3 in. in width.
12/- 15/- 18/- per doz.

BEWARE of FRAUDULENT IMITATIONS.

MAKER ON THE PREMISES OF

Elastic Stockings, Trusses, Belts, Suspensory Bandages, Chest Protectors, &c.

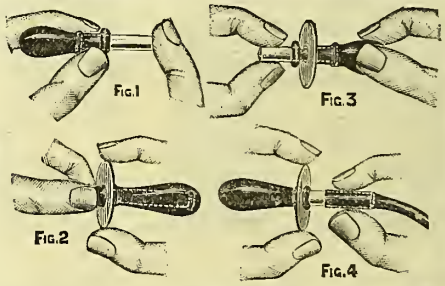
4 ALBION PLACE, BLACKFRIARS BRIDGE, LONDON, S.E.

Mills and Factories—NOTTINGHAM, LONDON, and CARLTON.

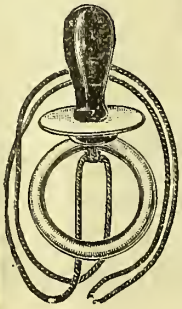


PATENT HOLDFAST SOOTHERS AND FEEDING BOTTLE UNIONS.

Well moisten Union and push into Teat, as shown in Fig. 1.
Pull Teat through hole in Shield, Fig. 2.



Pull Teat up to shoulder, Fig. 3.
To detach pull off tubing, as Fig. 4, and push back Union into Teat.



ADVANTAGES.

Absolute fixture of Teat and Shield, therefore impossible to get out of place by accident.
Complete Bone and Rubber Rings. Attractive get up, with Whistles, Bells, &c
1*d*., 2*d*., 3*d*., 4*d*., 6*d*., and 1*s* lines
If you cannot obtain from your Wholesale House send for samples. More than one hundred to choose from.



Patentee and Manufacturer—

A. S. CARTWRIGHT,
75 Ford Street, Hockley, Birmingham.
Wholesale and Shippers only.

BIG VALUE IN CORKS.

In addition to our well known brands, namely:—

	6-gross	50-gross	100-gross	300-gross
"**MADRID,**" for 1-dr., 2-dr., ½-oz., 1-oz. Vials	6*d.*	5½*d.*	5*d.*	4½*d.*
"**LISBON,**" for 3-oz., 4-oz., 6-oz., 8-oz. Bottles	7*d.*	6½*d.*	6*d.*	5½*d.*
"**CADIZ,**" for 8-oz., 10-oz., 12-oz., 16-oz., 20-oz. Bottles	1*s.*	11½*d.*	11*d.*	10½*d.*
"**RONDA**" (long), for 6-oz., 8-oz., 10-oz. Bottles	1*s.*	11½*d.*	11*d.*	10½*d.*

We now hold stock of extra value in **GINGER BEER CORKS,** of which some of our friends speak very highly, and sell big lots, namely,

	6-gross	50-gross	150-gross	300-gross
"X.X." Ginger Beer Corks	7*d.*	6½*d.*	6*d.*	5½*d.*
"X.X.X." " " "	1*s.*	11½*d.*	11*d.*	10½*d.*

Large quantities of these can be sold by Chemists to Ginger Beer Makers, &c., by exposing an original bale in the shop for a few weeks, and a steady sale maintained.

Sample 6-gross Bag of any or all on receipt of Postal Order (when no account is opened with us).

The above Quantitative Prices cannot be deviated from.

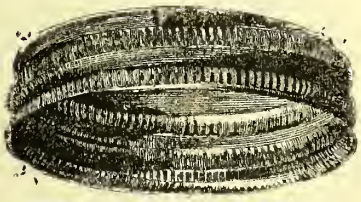


AYRTON & SAUNDERS,
LIVERPOOL.

Telegraphic Address—"SUNDRIES LIVERPOOL."
Telephone Nos. 423 and 5804.

THE PATENT STOPPER, BOX & STAMP CO., LIM.
13 VICTORIA STREET, LONDON, S.W.

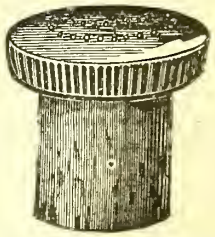
C. HOUGHTON BROWN,
Secretary.



SCREW CAPS OR CAPSULES.
Nickel, Zinc, Tin, or other Metal.

MANUFACTURERS of every description of

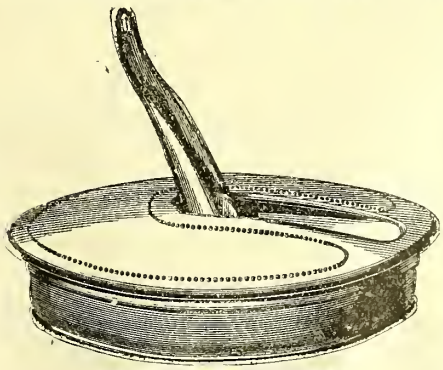
BOXES, STOPPERS,
POMADE & SCREW CAPS,
CAPSULES, &c., &c.



PATENT UNION STOPPER.



Patent No. 12711.
THE UNIQUE BOX.



PATENT LEVER STOPPER.

Samples & Prices for Wholesale Buyers on application.



Patent No 12711
THE UNIQUE BOX.

WHITE BEESWAX,

WARRANTED PURE. BLEACHED BY SUN.

REFINED YELLOW BEESWAX,

Recognised as the Standard in the United States.

Write for Sample and Quotation, naming quantity desired.

THEODOR LEONHARD, PATERSON, NEW JERSEY, U.S.A.

ESTABLISHED 1852. Cable Address—"LEONHARD PATERSON."

CONCENTRATED SIZE,



IN

1-lb., ½-lb., and ¼-lb. Packets

AND

¼-cwt. CASES.

FINE PALE GLUES AND GELATINES.

SAML. MEGGITT & SONS, LTD.

SUTTON-IN-ASHFIELD.

J. & E. DALTON & CO. LTD.

MANUFACTURERS OF

EMERY CLOTHS AND EMERY PAPER,

Glass Cloth & Glass Papers,

THE DALTON CELEBRATED KNIFE POLISH,

Naxos Emery, Ground Glass, &c.

ALBION MILLS EMERY WORKS

New Mills, near STOCKPORT.

Agents for Scotland—**SHAND BROS., 6 DIXON ST., GLASGOW.**

PAROZONE BLEACH

REGISTERED.

Snow White Linen.

Retailed at 1d. per Measure.



Removes Tea & Fruit Stains.

Also in 6d. Bottles.

Full Particulars on application—

THE PAROZONE CO., LIM.

22 Chatham Place, Hackney, LONDON, N.E.



THE KING OF POLISHES!!

GLOBE METAL POLISH (TINS)
PLATE POWDER (BOXES)
FURNITURE POLISH (TINS)

BRILLIANT, HARMLESS, LASTING, EASY.

READ THE FOLLOWING TESTIMONIALS.

THOS. WEBB & CO., Patentees and Sole Manufacturers of the "Perfection" Brass Name Plates, Stockport:—
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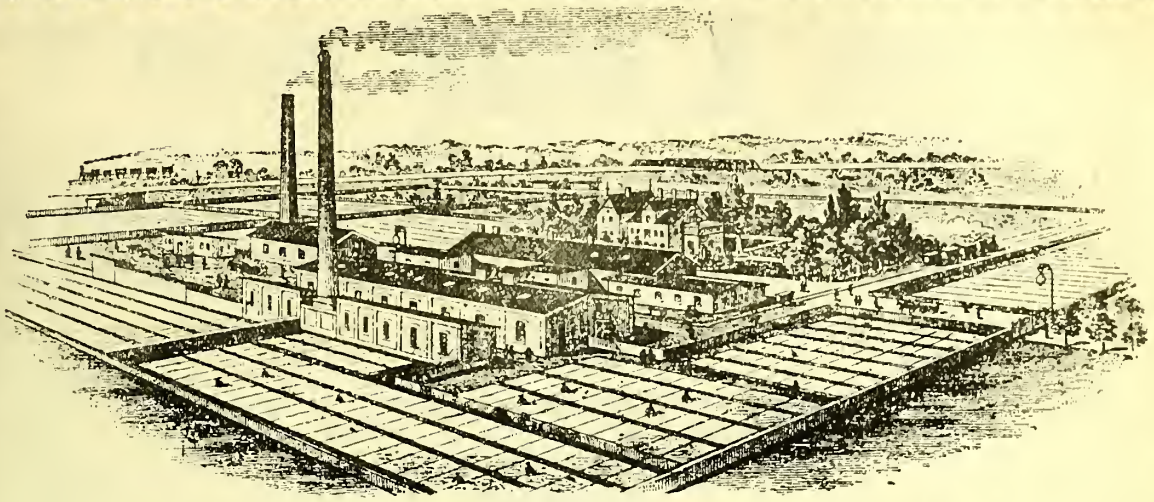
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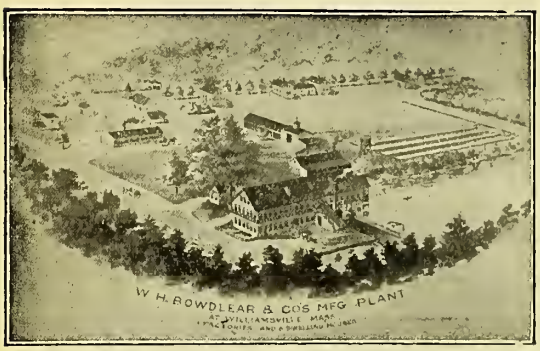
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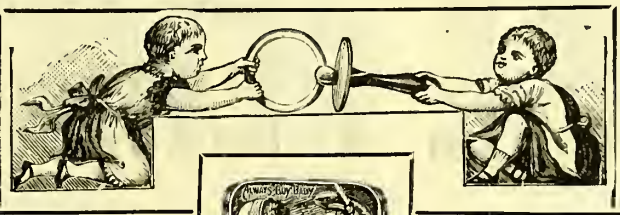
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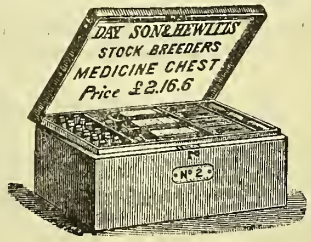
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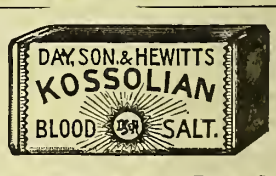
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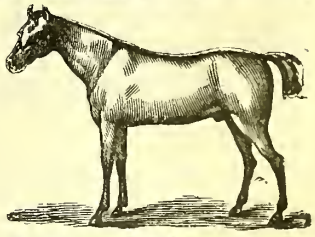
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All tins Free.
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Strength: 1 gall. sufficient for 25 galls. of water.

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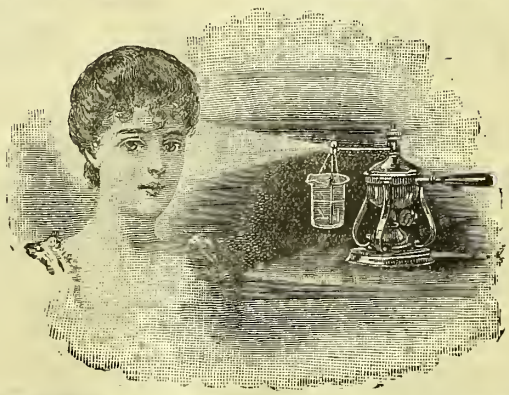
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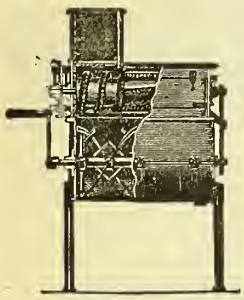
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These are Illustrations of some of the Patterns made to suit various Trades. Many others forwarded on application.


Fig. 1.

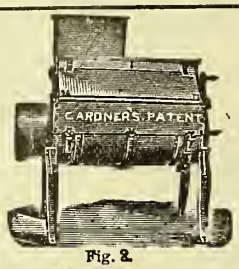


Fig. 2.

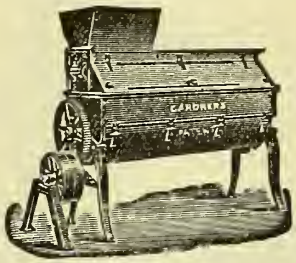
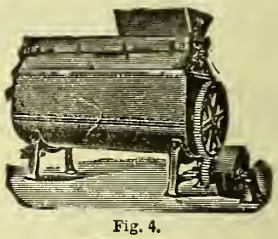


Fig. 3.


Fig. 4.

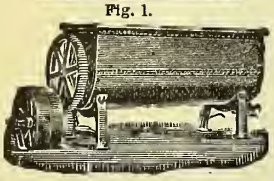

Fig. 11.



Fig. 9.

Cables and Telegrams:—
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Nat. Telephone:—No. **117.**



Fig. 5.

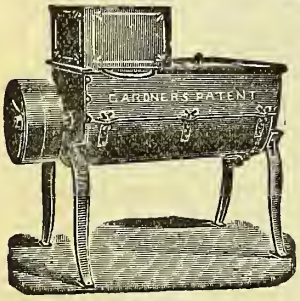
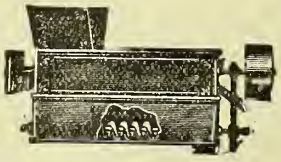


Fig. 12.



Fig. 6.


Fig. 8.

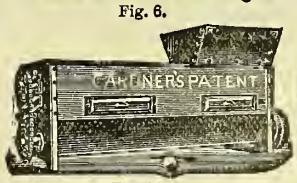


Fig. 10.

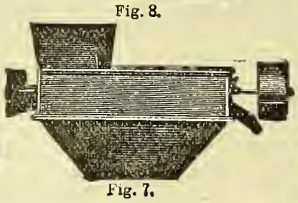

Fig. 7.



Fig. 13.

PRICES AND CAPACITIES OF PATTERNS ABOVE.

Size	Capacity in lbs. about	Fig. 1 Hand Sizes	Fig. 2 Power Sizes with Pulleys.	Figs. 3 & 4 Gear Drive with Pulleys	Fig. 6 Open Bottom	Fig. 7 Hopper Bottom	Figs. 8 & 10 Worm Bottom	Fig. 9 On Iron Stand	Fig. 11 Flat Top Pattern For Hand	Fig. 11 Flat Top Pattern Pulley Drive	Fig. 11 Flat Top Pattern Gear Drive	Fig. 12 Hopper Top Pattern Pulley Drive	Fig. 12 Hopper Top Pattern Gear Drive
		COMBINED "RAPID" SIFTER & MIXER			**PATENT "RAPID" SIFTER**				**PATENT "RAPID" MIXER**				
					Pulleys for Sifters are extra.				Pulleys for these included.				
		£ s.	£ s.	£ s.	£ s.	£ s.	£ s.	£ s.	£ s.	£ s.	£ s.	£ s.	£ s.
A	15	8 0	—	—	4 5	5 0	6 0	6 10	4 15				
B	30	11 0	—	—	5 15	6 15	7 15	8 0	6 0				
C	60	17 0	18 5	—	8 5	9 10	11 0	11 0	9 10	10 10	—	12 0	—
D	100	21 0	22 10	24 10	11 0	12 10	15 0	14 10	12 0	13 10	15 10	15 5	17 15
E	150	Larger	24 15	27 0	12 0	14 0	16 0	16 0	—	14 15	17 0	16 15	19 0
F	200	Sizes not	29 16	32 0	13 0	15 10	17 5	17 10	—	17 0	20 0	19 0	22 0
G	300	recom-	—	41 0	19 0	22 0	24 5	24 10	—	—	27 10	—	30 10
H	560	mended	—	70 0	—	—	35 0	—	—	—	40 0	—	—
I	1120	for Hand	—	120 0	—	—	45 0	—	—	—	80 0	—	—

Fig. 5. **Patent "Rapid" Sifter and Mixer** (Cabinet Pattern), Size A, capacity 15 lbs., £6 each. Size B, capacity 30 lbs., £8 each.
Fig. 13. **"Indispensable" Sifter and Mixer,** for small users, Size No. 1, capacity 7 lbs., £2 10s. each. No. 2, capacity 14 lbs., £3 10s. each.
NOTE.—The "Indispensable" sifts and mixes powders only, and does not reduce lumps like the "Rapid" patterns.

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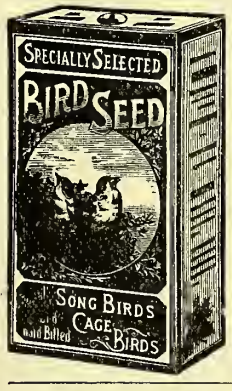
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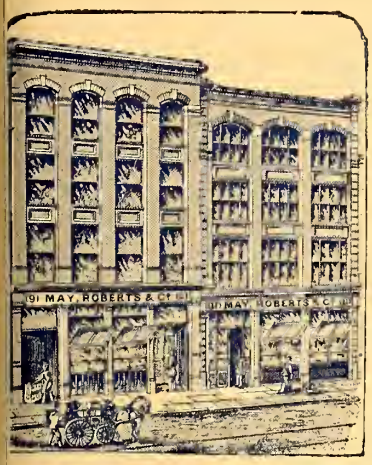
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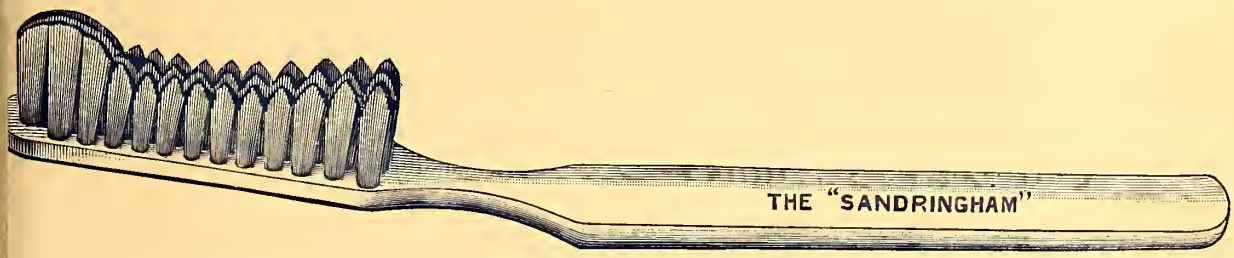
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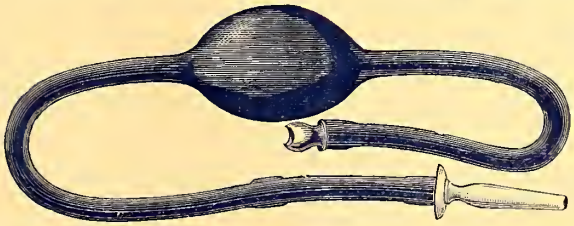
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